



POLYCAST[®]

CELL CAST ACRYLIC

GENERAL CATALOG

INTRODUCTION

Welcome to the world of Polycast, the world's largest supplier of specialty cell-cast acrylic sheet. In this catalog you will find almost everything you need to know about our products and services.

We strive to supply the highest quality acrylic sheet with the best possible service. This has been the cornerstone of Polycast's success. Our willingness to work with our customers to solve their problems has made us the largest acrylic sheet supplier to the aerospace industry, as well as a major force in the transportation, security, optics and acrylic furniture industries.

Our strategically placed warehouses around the country allow us to meet your needs quickly, giving you – the customer – a greater sense of security, knowing that your orders will be handled as quickly in the future as they are today.

We at Polycast are constantly developing new products and services to help you satisfy your business needs. If you don't find the answer you seek in this catalog, we would be delighted to help you solve your acrylic sheeting problems. Call us at 800-243-9002 or 203-327-6010, or e-mail us at polycast.marketing@spartech.com. Visit our website at - www.dss.polyone.com/townsend.



SPECIAL SERVICES

Unique Properties:

Polycast can modify its acrylic sheet to change certain physical, chemical or optical properties to help meet your requirements, including the introduction of sensitive dyes and other additives.

Custom Colors

Polycast has an extensive color database. Custom colors can be quoted upon your request.

Cut To Size

Polycast will cut sheet to your size requirements – saving you time and money.

Special Tolerance Control

Polycast can achieve special tolerances for more critical applications.

Technical Services

Field technical support from Polycast's sales engineering staff to augment Polycast's extensive product line.

SPECIAL PRODUCTS

Bullet Resisting Sheet - MP 1.25, SAR HP 1.25 & SP 1.25

Polycast produces sheet listed by Underwriters Laboratories as bullet resisting for Level 1 Medium Power (MP 1.25) which is also available with an SAR (abrasion resistant coating), Level 2 High Power (SAR HP 1.25) and Level 3 Super Power (SP 1.25) small arms, both of which come standard with an abrasion resistant coating. Polycast bullet resisting sheet has higher optical clarity than glass or polycarbonate, and can be easily machined and polished. It is available in bronze, as well as clear.

Super Abrasion Resistant Acrylic Sheet (S-A-R)

Polycast S-A-R is produced by applying a very hard, highly cross-linked polysilicate coating to a substrate. This coating provides Polycast SAR sheet with a surface that has 45 times the abrasion resistance of uncoated acrylic. It also has five times the impact resistance of glass and weighs half as much.

Ultraviolet Transmitting Sheet - UVT

Provides increased transmission of ultraviolet wavelengths between 280 and 360 nanometers.

Solacryl® - SUVT (Stabilized Ultraviolet Transmitting Sheet)

Provides increased resistance and degradation to UV exposure, while transmitting increased UV suitable for suntan beds.

Ultraviolet Filtering Sheet - UF-96, UF-3 & UF-4

Provides increased protection from ultraviolet wavelengths. UF-96 and UF-3 block all UV light below 395 nanometers. UF-4 blocks all UV light below 385 nanometers.

Infrared Transmitting Sheet - POLY 2711

A special formula that blocks all visible light, but allows infrared wavelengths to pass through. Specially suited for sophisticated security systems based on infrared technology.

Scintillator and Wavelength Shifter Sheet

Utilizes a special formula that produces visible light when bombarded with sub-atomic particles.

Pressurized Vehicle for Human Occupancy - PVHO

Polycast is the major supplier of acrylic sheet to the PVHO market. This highly critical application utilizes our expertise in producing optically superior sheet in thick sections.

Extra Thick Sheet

Sheet thicker than 4.500" is available as composite casting. The sheet is optically superior when viewed through the surface; however, polished edges may show the original casting surfaces as lines. This material meets the PVHO requirements.

Close Tolerance Sheet

Sheet which maintains closer thickness tolerances than standard commercial grade sheet.

Textured Sheet

Sheet is available with a matte (GL-15) or non-glare (GL-99) finish, in clear and colors.

National Sanitation Foundation - NSF

A special formulation that meets the requirements of the NSF for food contact.

Preshrunk Sheet

Sheet that is thermally preshrunk, but does not meet MIL-P-5425. Available in thicknesses of .060" to 4.250".

FDA

An acrylic sheet which complies with the Food and Drug Administration's regulations concerning food contact applications as described in 21 CFR 177.1010 for all food types, including alcoholic beverages in room temperature or refrigerated applications.

Poly FR9

Interior acrylic material ideal for aircraft applications where low flame spread and low smoke generation are desirable.

Poly 900

A semi-cross-linked material formulated to meet British specification DTD-5592.

Military Specification Sheet

Polycast produces sheet covered in Mil-P-5425, Mil-P-8184 and Mil-P-25690 whose inherent properties include; increased weather-ability, high solvent and craze resistance and lower water absorption. Material manufactured to Mil-PRF-25690, maintains process control from cell casting to stretching operation. Poly 2000 (Mil-P-25690) is a biaxially stretched acrylic sheet derived from Mil-P-8184 base material. It offers enhanced craze properties and increased crack resistance, primarily for those applications involving pressurized aircraft. These technologically advanced materials are supplied primarily to the Aviation industry.

PHYSICAL PROPERTIES

The following data are average values for Polycast commercial grade acrylic sheet and should not be used for any specific purpose. Polycast will furnish any additional information you may require.

Typical Properties (.250" unless noted)

			Polycast	UF3	UF4	UF96
Mechanical Properties	Test Method	Unit				
Ballistic Protection						
Specific Gravity	ASTM-D-792		1.19	1.19	1.19	1.19
Tensile Strength	ASTM-D-638					
Yield		psi	11,250	11,250	11,250	11,250
Elongation, Rupture		%	6.4	6.4	6.4	6.4
Modulus of Elasticity		psi	450,000	450,000	450,000	450,000
Flexural Strength	ASTM-D-790					
(Rupture)		psi	15,250	15,250	15,250	15,250
Modulus of Elasticity		psi	475,000	475,000	475,000	475,000
Compressive Strength	ASTM-D-695					
(Yield)		psi	18,000	18,000	18,000	18,000
Modulus of Elasticity		psi	440,000	440,000	440,000	440,000
Compressive Deformation (Under Load)	ASTM-D-621					
4000 PSI 122F, 24hr		%	0.75	0.75	0.75	0.75
Shear Strength	ASTM-D-732	psi	9,000	9,000	9,000	9,000
Impact Strength						
Izod Milled Notch	ASTM-D-256	ft. lbs/in. of notch	0.375*	0.375*	0.375*	0.375*
Falling Steel Ball, 0.5lb. (Breakage drop height (ft.))			18	18	18	18
Rockwell Hardness	ASTM-D-785		M98*	M98*	M98*	M98*
Barcol Hardness	ASTM-D-2583		50*	50*	50*	50*
Residual Shrinkage (Internal Strain)	ASTM-D-4802					
Polycast		%	2.2	2.2	2.2	2.2
Polycast Mil Spec		%				
Optical Properties						
Refractive Index	ASTM-D-542		1.49	1.49	1.49	1.49
Luminous Transmittance (As Cast)	ASTM-D-1003					
Total		%	92	92	92	92
Haze			<0.5	<0.5	<0.5	<0.5
Yellowness Index	ASTM-D-1925		0.5	2.1		1.0
After 1000 hrs. Accelerated Weathering	ASTM G26					
Total		%	92			
Haze			<0.5			
Effect Of Accelerated Weathering-On Appearance	ASTM G26					
Crazing / Discoloration / Warping			none			
Ultraviolet Transmission @ 320nm		%	0	0 @ 390nm	0 @ 385nm	0 @ 390nm
Craze Resistance	Mil-P-8184	psi				
DRY						
IPA			2,000			
Lacquer Thinner			1,000			
Sulfuric Acid			0			
WET						
IPA			500			
Lacquer Thinner			0			
Sulfuric Acid			0			
Abrasion Resistance (Reported as increase in % haze)						
Taber Abrasion (500g. ea. wheel, 100 rev.) ANSI Z26.1	ASTM-D-1044		14			
Mar Resistance	ASTM-D-637		29			
Thermal Properties						
Hot Forming Temperature		deg. Fahrenheit	320 **	320 **	320 **	320 **
Deflection Temperature under load (Heat Distortion Temp.)	ASTM-D-648					
66 psi		deg. Fahrenheit	230*	230*	230*	230*
264 psi		deg. Fahrenheit	203*	203*	203*	203*
Maximum Recommended Continuous Service Temp.		deg. Fahrenheit	180	180	180	180
Minimum Recommended Continuous Service Temp. [lowest temp. tested for bullet-resistance]						
Coefficient of Linear Thermal Expansion	ASTM-D-696	in./in./deg. F	0.000042	0.000042	0.000042	0.000042
Coefficient of Thermal Conductivity	Cento-Fitch ⁴	BTU/(Hr.) (Sq.Ft.) (deg. F/in.)	1.3	1.3	1.3	1.3
Thermal Relaxation						
@ 230 deg. F	Mil-P-25690	%				
@ 293 deg. F	Mil-P-25690	%				
Water Absorption						
26 day immersion		%	0.65	0.65	0.65	0.65
24 hour immersion		%	0.2	0.2	0.2	0.2
Flammability (Burning Rate) UL94HB	ASTM-D-635	in./min.	1.2*	1.2*	1.2*	1.2*
Self-ignition Temperature	ASTM-D-1929	deg. Fahrenheit	830*	830*	830*	830*
Specific Heat @ 77F	DuPont 900 (Therm.An. Cal.) ⁴	BTU/(Lb.) (deg. F)	0.35	0.35	0.35	0.35
Smoke Density	ASTM-D-2843	%	27**	27**	27**	27**
Crack Propagation (Received at STD Conditions)	Mil-P-25690	lbs/in 3/2				

	(UVT) Ultra-Violet	Solacryl [tests based on]	SAR (Super Abrasion)	MP 1.25 ¹ (UL 752 Level)	SAR HP 1.25 (UL 752 Level)	SP 1.25 (UL 752 Level 3)	Poly FR9 (.060")	Poly 900 (DTD-5592-U)	Poly II (Mil-P-5425)
				9mm	.357 Magnum	.44 Magnum			
	1.19	1.19	1.19				1.19	1.19	1.19
	11,250 6.4 450,000	8,600 7 400,000	10,000 4.5 427,000	9,500 400,000	9,500 400,000	9,400 400,000	>10,500 4.5 450,000	11,250 6.2	11,250 6.4
	15,250 475,000		16,000 450,000					15,250 475,000	15,250 475,000
	18,000 440,000		17,900 427,000	400,000	400,000	400,000		18,000 440,000	18,000 440,000
	0.75 9,000		8,900					0.75 9,000	0.75 9,000
	0.375* 18 M98* 50*		0.375* 18 M100*						
							M96*	M98* 50*	M98* 50*
	2.2	2.2	2.2	2.2	2.2		<1	2.2	<1
	1.49	1.49	1.43***				1.49	1.49	1.49
	92 <0.5	92 <1	93 0.5	>90 <1.0 <0.7	>90 <1.0 <0.7	>85 <1.5 <1.0	92 <0.5	92 <0.5	92 <0.5
								92 <0.5	92 <0.5
								none 0	none 0
	>80		0-5	0	0	0	0		
								2,100 1,350 NA 1,460 1,200 NA	2,100 1,100 0 1,000 0 0
			1.5 2.3		1.5 2.3	1.5 2.3			
	320 **	300 **	223 **	320 **	320 **			320 **	320 **
	230* 203* 180	200* 155	200 176	170 -26	170 -26	170 -26		230* 180	216* 180
	0.000042 1.3	0.000042	0.000042 1.45	0.000042 1.3	0.000042 1.3			0.000042 1.3	0.000042 1.3
	0.65 0.2 1.2* 830* 0.35 27**	0.2 1.2* 830* 0.35	0.2 0.98 870* 0.35 13.9	0.2 1.2* 870 0.35 Max:8%; Rating 5%	0.2 1.2* 870 0.35 Max:8%; Rating 5%	0.2 0.23* 870 0.35 Max:65%; Rating 49%	0.65 0.2 <0.3	0.65 0.2 1.2* 830* 0.35	0.65 0.2 1.2* 830* 0.35 27**

¹Also available with SAR coating.

Typical Properties (.250" unless noted)			Poly 84	Poly 76	Poly 2000 (Mil-P-25690;	Poly 2000 (Mil-P-25690;
Mechanical Properties	Test Method	Unit				
Ballistic Protection						
Specific Gravity	ASTM-D-792		1.19	1.19	1.19	1.19
Tensile Strength	ASTM-D-638					
Yield		psi	11,250	11,250	12,100	12,100
Elongation, Rupture		%	4.0	4.0		
Modulus of Elasticity		psi				
Flexural Strength	ASTM-D-790					
(Rupture)		psi	15,250	15,250		
Modulus of Elasticity		psi	475,000	475,000		
Compressive Strength	ASTM-D-695					
(Yield)		psi	18,000	18,000		
Modulus of Elasticity		psi	440,000	440,000		
Compressive Deformation (Under Load)	ASTM-D-621					
4000 PSI 122F, 24hr		%	0.75	0.75		
Shear Strength	ASTM-D-732	psi	9,000	9,000	3,700	3,700
Impact Strength						
Izod Milled Notch	ASTM-D-256	ft. lbs/in. of notch				
Falling Steel Ball, 0.5lb. (Breakage drop height (ft.))						
Rockwell Hardness	ASTM-D-785		M98*	M98*		
Barcol Hardness	ASTM-D-2583		50*	50*		
Residual Shrinkage (Internal Strain)	ASTM-D-4802					
Polycast		%				
Polycast Mil Spec		%	<1	<1		
Optical Properties						
Refractive Index	ASTM-D-542		1.49	1.49	1.49	1.49
Luminous Transmittance (As Cast)	ASTM-D-1003					
Total		%	92	92		
Haze			<0.75	<0.75	91	91
Yellowness Index	ASTM-D-1925				<1.5	<1.5
After 1000 hrs. Accelerated Weathering	ASTM G26					
Total		%	91	91	90	90
Haze			<0.75	<0.75	<3.0	<3.0
Effect Of Accelerated Weathering-On Appearance	ASTM G26					
Crazing / Discoloration / Warping			none	none		
Ultraviolet Transmission @ 320nm		%				
Craze Resistance	Mil-P-8184	psi	0	0		
DRY						
IPA			3,225	3,100	3,700	4,300
Lacquer Thinner			3,030	3,150	3,300	3,600
Sulfuric Acid			1,550	1,285		
WET						
IPA			2,775	2,440	2,750	3,600
Lacquer Thinner			2,700	2,450	2,650	3,000
Sulfuric Acid			1,020	500		
Abrasion Resistance (Reported as increase in % haze)						
Taber Abrasion (500g. ea. wheel, 100 rev.) ANSI Z26.1	ASTM-D-1044					
Mar Resistance	ASTM-D-637					
Thermal Properties						
Hot Forming Temperature		deg. Fahrenheit	320**	320**	218**	218**
Deflection Temperature under load	ASTM-D-648					
(Heat Distortion Temp.)						
66 psi		deg. Fahrenheit				
264 psi		deg. Fahrenheit	221*	234*		
Maximum Recommended Continuous Service Temp.		deg. Fahrenheit	180	180		
Minimum Recommended Continuous Service Temp.						
[lowest temp. tested for bullet-resistance]						
Coefficient of Linear Thermal Expansion	ASTM-D-696	in./in./deg. F	0.000042	0.000042	0.000042	0.000042
Coefficient of Thermal Conductivity	Cento-Fitch ⁴	BTU/(Hr.) (Sq.Ft.) (deg. F/in.)	1.3	1.3	1.3	1.3
Thermal Relaxation						
@ 230 deg. F	Mil-P-25690	%			3.3	3.3
@ 293 deg. F	Mil-P-25690	%			45	45
Water Absorption	26 day immersion	%	1.6	2.6	2.6	1.6
	24 hour immersion	%	0.2	0.2	0.2	0.2
Flammability (Burning Rate) UL94HB	ASTM-D-635	in./min.	0.8*	0.8*		
Self-ignition Temperature	ASTM-D-1929	deg. Fahrenheit				
Specific Heat @ 77F	DuPont 900 (Therm.An. Cal.) ⁴	BTU/(Lb.) (deg. F)	0.35	0.35	0.35	0.35
Smoke Density	ASTM-D-2843	%				
Crack Propagation (Received at STD Conditions)	Mil-P-25690	lbs/in 3/2			2,900	2,900

Electrical Properties	Test Method	Unit	Average Value for
Dielectric Strength Short Time Test	ASTM-D149	volts/mil. (1/8" thickness)	430**
Dielectric Constant	ASTM-D150	-	
60 Cycles			3.5
1,000 Cycles			3.2
1,000,000 Cycles			2.7
Dissipation Factor	ASTM-D150	-	
60 Cycles			0.06
1,000 Cycles			0.04
1,000,000 Cycles			0.02
Power Factor	ASTM-D150	-	
60 Cycles			0.06
1,000 Cycles			0.04
1,000,000 Cycles			0.02
Loss Factor	ASTM-D150	-	
60 Cycles			0.21
1,000 Cycles			0.13
1,000,000 Cycles			0.06
Arc Resistance	ASTM-D495	-	No Tracking
Volume Resistivity	ASTM-D257	ohm-cm.	1.6x10 ¹⁶
Surface Resistivity	ASTM-D257	ohms	1.9x10 ¹⁵

¹ ADDITIONAL DATA, CODES AND APPROVALS ARE AVAILABLE UPON REQUEST

All values shown are for 0.250" thickness sheet, unless otherwise noted. Asterisk (*) values will change with thickness. Difference in length and width, as measured at room temperature, before and after heating above 300 deg F.

² Unshrunk sheet will shrink in size by approximately 2% and increase in thickness by approximately 4% when heated to forming temperature.

⁴ Not ASTM method.

** Varies with thickness.

*** Because the surface of Polycast SAR has a lower refractive index than the substrate, the amount of back reflectance is reduced and the transmittance increased.

(A) Steel Wool Rotary Test - This severe abrasion uses a 1.25" square pad of commercially available 0000 grade steel wool. The steel wool pad is loaded with appropriate weights to give either 12 or 24 psi pressure and is revolved five times.

(B) Simulated Cleaning Test - An abrasive water slurry of a commercially available standard test dust is placed on the sample. It is then stroked 360 times with a felt pad under an approximately 2.0 psi load. @ MP 1.25 also available in SAR abrasion resistant coating

COLOR

Colors and whites listed below are standard items and may be ordered in the case and pallet quantities listed on inside back cover. These colors are also available in other sizes and thicknesses as non-standard items. Polycast manufactures many other colors. Please call for availability.

COLOR	TYPE	%TRANS	COLOR	TYPE	%TRANS	COLOR	TYPE	%TRANS
Semi Opaque			White Translucent			Solar Control -		
2022 Black	SO	0%	2067 White	TL	71%	Transparent		
2025 Black	SO	0%	2447 White	TL	51%	2064 Gray	TP	27%
White Semi Opaque			Transparent			2074 Gray	TP	13%
7138 White	SO	5%	2069 Blue	TP	55%	2094 Gray	TP	45%
7328 White	TL	34%	2092 Green	TP	26%	2370 Bronze	TP	10%
7420 White	TL	26%	2111 Green	TP	77%	2404 Bronze	TP	49%
7508 White	TL	8%	2208 Yellow	TP	77%	2412 Bronze	TP	27%
Translucent			2414 Green	TP	60%	2514 Gray	TP	59%
2039 Red	TL	2%	2422 Amber	TP	48%	2515 Gray	TP	76%
2050 Blue	TL	1%	2423 Red	TP	6%	2537 Gray	TP	32%
2146 Ivory	TL	38%	2424 Blue	TP	8%	2538 Gray	TP	16%
2157 Red	TL	2%	2444 Red	TP	5%	2539 Bronze	TP	61%
2283 Red	TL	12%	3030 Green	TP	92%	2540 Bronze	TP	75%
2662 Red	TL	4%						

APPROVALS AND SPECIFICATIONS

GENERAL CATALOG

MEETS THE TEST REQUIREMENTS OF:

ANSI Z97.1 (American National Standards Institute Specification); defines performance criteria for safety glazing used in buildings, concerning impact hardness and degradation after accelerated weathering. Polycast acrylic sheet in thicknesses greater than 0.099 are certified as complying.

ANSI Z26.1 and FMVSS 205 (Federal Motor Vehicle Safety Standard); define performance characteristics of safety glazing for passenger car, trailers, trucks, buses, and motorcycles, including (but not limited to) impact resistance, chemical resistance, abrasion resistance, flammability, weathering, and optics.

NSF Grade Sheet; Polycast offers an acrylic sheet which meets the requirements for the national Sanitation Foundation.

FDA; Food and Drug Administration's regulations concerning food contact applications as described in 21 CFR 177.1010 for all food types, including alcoholic beverages in room temperature or refrigerated applications.

Dade County Approval; Approved under Section 203 and 204 of the South Florida Building Code Governing the use of Alternate Materials and Types of Construction.

UL 94HB; Underwriters Laboratories recognized for flammability* of plastic materials for parts in devices and appliances. Polycast acrylic is recognized under UL 94HB, with some exceptions.

UL 723; Underwriters Laboratories classified for surfaces burning characteristics of a building material. Polycast acrylic 3/8 inches and greater is classified with the following test values: flame spread = 140; smoke developed = greater than 500.

UL 746A; Underwriters Laboratories recognized for polymeric materials in electrical applications. Contact inside sales for further information.

UL 752; Underwriters Laboratories listed for bullet-resisting equipment. Polycast offers the following in clear and bronze:
- Level 1, MP 1.25, SAR MP 1.25 Medium power, small arms resistant.
- Level 2, SAR HP 1.25 High power, small arms resistant.
- Level 3, SP 1.25 Super power, small arms resistant.

FAR 25.853 (Federal Aviation Regulation); defines the flammability requirements for acrylic windows and signs for aircraft interiors. Polycast sheet .049" and greater meets this requirement.

FMVSS-302 (Federal Motor Vehicle Safety Standard); defines burn rates of interior materials for passenger cars, trailers, trucks and buses. All Polycast materials meet this standard.

ASME PVHO-I and MIL-C-24449; defines the requirements for materials used in the fabrication of windows for service in pressure vessels for human occupancy. Polycast material meets these requirements.

MIL-DTL-24191; Shipboard application of illumination and signal lighting. Defines the requirements of the material intended for use in the fabrication of lighting fixtures for Naval service. Among the associated tests are flammability, deflection temperature, flexural strength, impact strength and optical properties. Polycast material meets these requirements.

City of New York, Dept. of Buildings; Accepted for use, City of New York, Department of Buildings, as glazing material in lieu of glass in non-rated windows, doors and in skylights in sheet thicknesses up to 3/8-inch maximum, and for ground, wall and roof sign combustible material, where permitted by Code. File number MEA 80-82-M.

City of New York, Board of Standards and Appeals; Approved for use in safety glazing applications. Calendar number 1997-61-SM.

Consumer Product Safety Commission (CPSC); Polycast acrylic sheet .080 and greater complies with the requirements of the Consumer Product Safety Act and the CPSC Safety Standard of Architectural Glazing materials, 16 CFR 1201 for both Category I and Category II.

POLYCAST ACRYLIC SHEET CONFORMS TO THE FOLLOWING SPECIFICATIONS (CURRENT EDITIONS)

ASTM D-702; defines physical properties which acrylics should meet or exceed, such as tensile strength, refractive index, specific gravity, deflection temperature, and impact strength. Polycast acrylic sheet meets or exceeds the requirements for all types of grades of sheet of this specification.

ASTM D-4802; A specification covering monolithic methacrylate sheet produced by the cell-cast method. Polycast acrylic sheet in thickness 0.030-4.250 meets or exceeds the requirements for Category A-I, finish 1,2,3; Types UVA & UVT.

AMS-L-P-391; An S.A.E. material specification referencing specific Federal quality standards and ASTM test methods. Polycast acrylic sheet in thickness 0.030-4.250 meets or exceeds the requirements for item A, Type I, II and III, Grade A, B, or C.

MIL-P-8184; military specification covering modified acrylic (specially designed for superior resistance to chemical attack). Materials supplied for conformance to this specification are Polycast Poly-76® and Poly-84® (available in both Type I and II and Class 1 and 2). All products are on the Qualified Products list for this Mil-Spec.

MIL-P-25690; military specification covering stretched acrylic sheet specially designed from Mil-P-8184 base material. It offers enhanced craze properties and increased crack resistance. Material supplied for conformance to this specification is identified as Poly 2000™.

MIL-P-5425; military specifications covering heat-resistant, preshrunk, clear, and colored acrylic sheet. Material supplied for conformance for this specification is identified by the name POLY II®. Polycast is qualified to furnish sheets in thickness 0.060-1.000 to meet this specification.

There are many more standards, codes, and specifications to which Polycast can demonstrate compliance. Inquiries regarding your particular problems or requirements should be directed to the Polycast Marketing Department. Call 1-800-243-9002 or email polycast.marketing@spartech.com.

*This term and any corresponding data refer to typical performance in the specific tests indicated and should not be construed to imply this material's behavior under actual fire conditions.

MILITARY SPECIFICATION SHEET

APPROVALS AND SPECIFICATIONS	U.S	GREAT BRITAIN	GERMANY	AECMA	FRANCE
POLY A	AMTM D-4802 AMS-L-P-391				
POLY II®	MIL-PRF-5425		Exceeds WL5.1412	EN2263	Exceeds AIR 9106/A
POLY 76® TYPE I OR II CLASS I	MIL-PRF-8184	Exceeds DTD 5592	Exceeds WL5.1415	EN2342	Exceeds AIR 9106/A Type II
POLY 84® TYPE I OR II CLASS 2	MIL-PRF-8184	Exceeds DTD 5592	Exceeds WL5.1415	EN2342	Exceeds AIR 9106/A Type II
POLY 900®		Exceeds DTD 5592			

TOLERANCES	STANDARD THICKNESS ¹	CLASS A	CLASS B	CLASS C
POLY II® POLY 76® POLY 84®	.030	±.012		
	.060	±.012	+ .020	
	.080	±.012	+ .020	
	.100	±.012	+ .020	
	.125	±.015	+ .020	+ .030
Overages All sheets supplied net trim (with no overages).	.150	±.017	+ .020	+ .030
	.187	±.020	+ .023	+ .030
	.220	±.023	+ .025	+ .030
	.250	±.025	+ .030	+ .035
	.312	±.030	+ .035	+ .040
Untrimmed Sheet Untrimmed sheets are available. No guarantee is given as to the additional area obtained by ordering untrimmed sheets.	.375	±.035	+ .040	+ .045
	.417	±.040	+ .045	+ .045
	.500	±.040	+ .045	+ .050
	.625	±.050	+ .050	+ .060
	.750	±.050	+ .050	+ .065
¹ Intermediate thicknesses are available.	.875	±.050	+ .050	+ .070
	1.000	±.050	+ .050	+ .075
	1.250	±.063	+ .063	+ .095
	1.500	±.075	+ .075	+ .112
	1.750	±.088	+ .088	+ .131
	2.000	±.100	+ .100	+ .150
	2.250	±.113	+ .113	+ .168
	2.500	±.117	+ .117	+ .175
	3.000	±.120	+ .120	+ .190
	3.500	±.140	+ .140	+ .210
	4.000	±.160	+ .160	+ .225

SIZES AND THICKNESSES

GENERAL CATALOG

POLY II® UVA (MIL-PRF-5425)

CLEAR

■ **Standard Items:**
Standard items may be ordered in standard packages (cases and pallets) in quantities listed on inside back cover.

□ **Non-standard Items:** Contact Inside Sales for availability. Also contact Inside Sales for items which do not appear on chart.

Color
POLY II® is available in most colors, manufactured in accordance with MIL-PRF-5425 insofar as the specification is applicable. Please contact Inside Sales for further information.

		Tolerance Class	Thicknesses ¹	.030	.060	.080	.100	.125	.150	.187	.220	.250	.312	.375	.500	.625	.750	.875	1.000
SIZES																			
36 x 48	A		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
36 x 60	*		□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
36 x 72	*		□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
40 x 50	A		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
48 x 48	*		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
48 x 60	*			□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
48 x 72	B			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
48 x 96	C						■	■	■	■	■	■	■	■	■	■	■	■	■
60 x 72	B						■	■	■	■	■	■	■	■	■	■	■	■	■
60 x 96	C						■	■	■	■	■	■	■	■	■	□	□	□	□
72 x 72	C						■	■	■	■	■	■	■	■	■	□	□	□	□
72 x 96	C						■	■	■	■	■	■	■	■	■	□	□	□	□

*Available as cutdowns from larger sizes. Tolerance of larger size prevails.

POLY 76® (MIL-PRF-8184, Type I and II, Class 1)

POLY 84® (MIL-PRF-8184, Type I and II, Class 2)

CLEAR

■ **Standard Items:**
Standard items may be ordered in standard packages (cases and pallets) listed on inside back cover.

□ **Non-standard Items:** Contact Inside Sales for availability and for items which do not appear on chart.

Color
Available in most colors, manufactured in accordance with MIL-PRF-8184 insofar as the specification is applicable. Please contact Inside Sales for further information.

¹Intermediate thicknesses are available with special ordering requirements.

		Tolerance Class	Thicknesses ¹	.060	.080	.100	.125	.150	.187	.220	.250	.312	.375	.500	.625 & above
SIZES															
36 x 48	A		■	■	■	■	■	■	■	■	■	■	■	■	□
36 x 60	*		□	□	□	□	□	□	□	□	□	□	□	□	□
36 x 72	*		□	□	□	□	□	□	□	□	□	□	□	□	□
40 x 50	A		□	□	□	■	■	■	■	■	■	■	■	■	■
48 x 48	*					■	■	■	■	■	■	■	■	■	■
48 x 60	*		□	□	□	■	■	■	■	■	■	■	■	■	■
48 x 72	B		□	□	□	■	■	■	■	■	■	■	■	■	■
48 x 96	C					■	■	■	■	■	■	■	■	■	■
60 x 72	B					■	■	■	■	■	■	■	■	■	■
60 x 96	C					■	■	■	■	■	■	■	■	■	■
72 x 72	C					■	■	■	■	■	■	■	■	■	■
72 x 96	C					□	□	□	□	□	□	□	□	□	□

*Available as cutdowns from larger sizes. Tolerance of larger size prevails.

COMMERCIAL TOLERANCE CLASSES

THICKNESSES	.060	.080	.100	.125	.150	.187	.220	.250	.312	.375	.500	.625	.750	.875	1.000	1.125	1.250	1.500	1.750	2.000	2.250	2.500	2.750	3.000	3.250	3.500	3.750	4.000	4.250
SIZES	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
36 x 48	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
36 x 60*	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
36 x 72*	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
40 x 50	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
48 x 48	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
48 x 60*	C	C	C	C	C	C	C	C	C	C	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
48 x 72	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
48 x 84	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
48 x 96	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
53 x 80*			B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
53 x 90*			B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
60 x 60*			B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
60 x 72			B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
60 x 84			C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
60 x 96			C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
72 x 72			C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
72 x 84			C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
72 x 96			C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
OVERSIZE																													
48 x 120				C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
60 x 120			C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
72 x 120			C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

*Available as cutdown from larger size. Tolerance of larger size prevails.

COMMERCIAL THICKNESS TOLERANCES (ASTM D-4802/LP-391)

NORMAL THICKNESS IN INCHES	APPROX. WT. PER SQ. FT.	THICKNESS TOLERANCES IN INCHES			NORMAL THICKNESS IN INCHES	APPROX. WT. PER SQ. FT.	THICKNESS TOLERANCES IN INCHES		
		SIZE 1 / CLASS A	SIZE 2 / CLASS B	SIZE 3 / CLASS C			SIZE 1 / CLASS A	SIZE 2 / CLASS B	SIZE 3 / CLASS C
.030	.18 lb.	+0.07 -.009	-	-	.875	5.39 lb.	+0.26 -.084	+0.26 -.084	+0.46 -.104
.040	.25 lb.	+0.06 -.010	-	-	1.000	6.16 lb.	+0.23 -.087	+0.23 -.087	+0.48 -.112
.050	.31 lb.	+0.06 -.010	-	-	1.125	6.93 lb.	+0.39 -.091	+0.39 -.091	+0.50 -.102
.060	.37 lb.	+0.15 -.019	+0.23 -.027	-	1.250	7.70 lb.	+0.52 -.094	+0.52 -.094	+0.52 -.094
.080	.49 lb.	+0.14 -.020	+0.22 -.028	-	1.500	9.24 lb.	+0.39 -.121	+0.39 -.121	+0.77 -.159
.100	.62 lb.	+0.13 -.021	+0.21 -.029	-	1.750	10.78 lb.	+0.49 -.137	+0.49 -.137	+0.92 -.180
.125	.77 lb.	+0.15 -.025	+0.20 -.030	+0.30 -.040	2.000	12.32 lb.	+0.58 -.152	+0.58 -.152	+1.08 -.202
.150	.92 lb.	+0.16 -.030	+0.22 -.036	+0.29 -.050	2.250	13.86 lb.	+0.70 -.166	+0.70 -.166	-
.187	1.15 lb.	+0.17 -.033	+0.22 -.038	+0.27 -.043	2.500	15.40 lb.	+0.79 -.181	+0.79 -.181	-
.220	1.36 lb.	+0.20 -.040	+0.25 -.045	+0.29 -.050	2.750	16.94 lb.	+0.92 -.194	+0.92 -.194	-
.250	1.54 lb.	+0.20 -.040	+0.25 -.045	+0.30 -.050	3.000	18.48 lb.	+1.02 -.208	+1.02 -.208	-
.312	1.92 lb.	+0.22 -.048	+0.27 -.053	+0.32 -.058	3.250	20.02 lb.	+1.14 -.222	+1.14 -.222	-
.375	2.31 lb.	+0.25 -.055	+0.30 -.060	+0.35 -.065	3.500	21.56 lb.	+1.21 -.239	+1.21 -.239	-
.500	3.08 lb.	+0.25 -.065	+0.30 -.070	+0.35 -.075	3.750	23.10 lb.	+1.34 -.252	+1.34 -.252	-
.625	3.85 lb.	+0.33 -.077	+0.33 -.077	+0.38 -.082	4.000	24.64 lb.	+1.42 -.268	+1.42 -.268	-
.750	4.62 lb.	+0.30 -.080	+0.30 -.080	+0.40 -.090	4.250	26.18 lb.	+1.50 -.280	+1.50 -.280	-

POLYCAST STANDARD PACKAGING, TOLERANCES AND OVERAGES

The following listing shows guaranteed overages, tolerance ranges and standard package quantities.

THICKNESS	BILLING SIZE	ACTUAL SIZE	TOLERANCE RANGE	SHEETS PER CASE	SHEETS PER PALLET
0.060	36 x 48	37 x 51	.033-.084	60	384
	48 x 72	51 x 75	.033-.084	30	192
0.080	36 x 48	37 x 51	.052-.102	48	288
	48 x 72	51 x 75	.052-.102	24	144
0.100	36 x 48	37 x 51	.071-.121	40	240
	48 x 72	51 x 75	.071-.121	20	120
	60 x 60	63 x 63	.071-.121	19	114
0.125	36 x 48	37 x 51	.095-.145	32	192
	48 x 72	51 x 75	.095-.145	16	96
	48 x 84	51 x 88	.095-.145	14	84
	48 x 96	51 x 100	.095-.145	12	72
	53 x 80	56 x 83	.095-.145	13	78
	53 x 90	55 x 93	.095-.145	12	72
	60 x 60	63 x 63	.095-.145	15	90
	60 x 72	63 x 75	.095-.145	13	78
	60 x 84	63 x 88	.085-.155	11	66
	60 x 96	63 x 100	.085-.155	10	60
	72 x 72	75 x 75	.085-.155	11	66
	72 x 84	75 x 88	.085-.155	9	54
	72 x 96	75 x 100	.085-.155	8	48
	0.150	36 x 48	37 x 51	.114-.172	28
48 x 72		51 x 75	.114-.172	14	84
48 x 84		51 x 88	.114-.172	11	66
48 x 96		51 x 100	.114-.172	9	54
53 x 80		56 x 83	.114-.172	11	66
53 x 90		55 x 93	.114-.172	10	60
60 x 60		63 x 63	.114-.172	12	72
60 x 72		63 x 75	.114-.172	11	66
60 x 84		63 x 88	.100-.179	9	54
60 x 96		63 x 100	.100-.179	8	48
72 x 72		75 x 75	.100-.179	9	54
72 x 84		75 x 88	.100-.179	8	48
72 x 96		75 x 100	.100-.179	7	42
0.187		36 x 48	37 x 51	.149-.209	22
	48 x 72	51 x 75	.149-.209	11	66
	48 x 84	51 x 88	.149-.209	9	54
	48 x 96	51 x 100	.149-.209	8	48
	53 x 80	56 x 83	.149-.209	9	54
	53 x 90	55 x 93	.149-.209	8	48
	60 x 60	63 x 63	.149-.209	10	60
	60 x 72	63 x 75	.149-.209	9	54
	60 x 84	63 x 88	.144-.214	8	48
	60 x 96	63 x 100	.144-.214	7	42
	72 x 72	75 x 75	.144-.214	7	42
	72 x 84	75 x 88	.144-.214	6	36
	72 x 96	75 x 100	.144-.214	6	36
	0.220	36 x 48	37 x 51	.175-.245	18
48 x 72		51 x 75	.175-.245	9	54
48 x 84		51 x 88	.175-.245	8	48
48 x 96		51 x 100	.175-.245	7	42
53 x 80		56 x 83	.175-.245	8	48
53 x 90		55 x 93	.175-.245	7	42
60 x 60		63 x 63	.175-.245	9	54
60 x 72		63 x 75	.175-.245	8	48
60 x 84		63 x 88	.170-.249	7	42
60 x 96		63 x 100	.170-.249	6	36
72 x 72		75 x 75	.170-.249	6	36
72 x 84		75 x 88	.170-.249	5	30
72 x 96		75 x 100	.170-.249	5	30
0.250		36 x 48	37 x 51	.205-.275	16
	48 x 72	51 x 75	.205-.275	8	48
	48 x 84	51 x 88	.205-.275	7	42
	48 x 96	51 x 100	.205-.275	6	36
	53 x 80	56 x 83	.205-.275	7	42
	53 x 90	55 x 93	.205-.275	6	36
	60 x 60	63 x 63	.205-.275	8	48
	60 x 72	63 x 75	.205-.275	7	42
	60 x 84	63 x 88	.200-.280	6	36
	60 x 96	63 x 100	.200-.280	5	30
	72 x 72	75 x 75	.200-.280	6	36
	72 x 84	75 x 88	.200-.280	5	30
	72 x 96	75 x 100	.200-.280	4	24

THICKNESS	BILLING SIZE	ACTUAL SIZE	TOLERANCE RANGE	SHEETS PER CASE	SHEETS PER PALLET	
0.312	36 x 48	37.00 x 49.25	.259-.339	12	72	
	48 x 72	49.25 x 73.75	.259-.339	6	36	
	48 x 84	49.25 x 86.00	.259-.339	5	30	
	48 x 96	49.25 x 98.50	.259-.339	5	30	
	53 x 80	54.50 x 82.00	.259-.339	5	30	
	53 x 90	54.50 x 92.25	.259-.339	5	30	
	60 x 60	61.50 x 61.50	.259-.339	6	36	
	60 x 72	61.50 x 73.75	.259-.339	5	30	
	60 x 84	61.50 x 86.00	.254-.344	4	24	
	60 x 96	61.50 x 98.50	.254-.344	4	24	
	72 x 72	73.75 x 73.75	.254-.344	4	24	
	72 x 84	73.75 x 86.00	.254-.344	3	18	
	72 x 96	73.75 x 98.50	.254-.344	3	18	
	0.375	36 x 48	37.00 x 49.25	.315-.405	12	72
48 x 72		49.25 x 73.75	.315-.405	6	36	
48 x 84		49.25 x 86.00	.315-.405	4	24	
48 x 96		49.25 x 98.50	.315-.405	4	24	
53 x 80		54.50 x 82.00	.315-.405	4	24	
53 x 90		54.50 x 92.25	.315-.405	4	24	
60 x 60		61.50 x 61.50	.315-.405	5	30	
60 x 72		61.50 x 73.75	.315-.405	4	24	
60 x 84		61.50 x 86.00	.310-.410	3	18	
60 x 96		61.50 x 98.50	.310-.410	3	18	
72 x 72		73.75 x 73.75	.310-.410	4	24	
72 x 84		73.75 x 86.00	.310-.410	3	18	
72 x 96		73.75 x 98.50	.310-.410	3	18	
0.500		36 x 48	37.00 x 49.25	.430-.530	8	48
	48 x 72	49.25 x 73.75	.430-.530	4	24	
	48 x 84	49.25 x 86.00	.430-.530	3	18	
	48 x 96	49.25 x 98.50	.430-.530	3	18	
	53 x 80	54.00 x 82.00	.430-.530	3	18	
	53 x 90	54.00 x 92.00	.430-.530	3	18	
	60 x 60	61.50 x 61.50	.430-.530	4	24	
	60 x 72	61.50 x 73.75	.430-.530	3	18	
	60 x 84	61.50 x 86.00	.425-.535	2	12	
	60 x 96	61.50 x 98.50	.425-.535	2	12	
	72 x 72	73.75 x 73.75	.425-.535	3	18	
	72 x 84	73.75 x 86.00	.425-.535	2	12	
	72 x 96	73.75 x 98.50	.425-.535	2	12	
	0.625	48 x 72	48.50 x 72.75	.548-.658	3	18
48 x 96		48.50 x 97.00	.548-.658	2	14	
60 x 72		60.75 x 72.75	.548-.658	2	14	
60 x 96		60.75 x 97.00	.543-.663	2	12	
72 x 72		72.75 x 72.75	.543-.663	2	12	
72 x 96		72.75 x 97.00	.543-.663	2	8	
0.750		36 x 48	37.00 x 49.00	.670-.780	6	30
		48 x 72	48.50 x 72.75	.670-.780	3	15
	48 x 96	48.50 x 97.00	.670-.780	2	12	
	60 x 72	60.75 x 72.75	.670-.780	2	12	
	60 x 96	60.75 x 97.00	.660-.790	2	10	
	72 x 72	72.75 x 72.75	.660-.790	2	10	
	72 x 96	72.75 x 97.00	.660-.790	2	8	
	0.875	48 x 72	48.50 x 72.75	.791-.901	3	15
48 x 96		48.50 x 97.00	.791-.901	2	10	
60 x 72		60.75 x 72.75	.791-.901	2	10	
60 x 96		60.75 x 97.00	.753-.921	2	8	
72 x 72		72.75 x 72.75	.753-.921	1	9	
72 x 96		72.75 x 97.00	.753-.921	1	6	
1.000		36 x 48	37.00 x 49.00	.913-1.023	4	24
		48 x 72	48.50 x 72.75	.913-1.023	2	12
	48 x 96	48.50 x 97.00	.913-1.023	2	10	
	60 x 72	60.75 x 72.75	.913-1.023	2	10	
	60 x 96	60.75 x 97.00	.888-1.048	1	7	
	72 x 72	72.75 x 72.75	.888-1.048	1	8	
	72 x 96	72.75 x 97.00	.888-1.048	1	6	
	1.125	48 x 72	48.50 x 72.75	1.021-1.157	2	10
48 x 96		48.50 x 97.00	1.021-1.157	1	8	
60 x 72		60.75 x 72.75	1.021-1.157	1	8	
60 x 96		60.75 x 97.00	1.005-1.175	1	6	
72 x 72		72.75 x 72.75	1.005-1.175	1	7	
72 x 96		72.75 x 97.00	1.005-1.175	1	5	
1.250		36 x 48	37.00 x 49.00	1.156-1.302	3	18
		48 x 72	48.50 x 72.75	1.156-1.302	2	10
	48 x 96	48.50 x 97.00	1.156-1.302	1	7	
	60 x 72	60.75 x 72.75	1.156-1.302	1	7	
	60 x 96	60.75 x 97.00	1.156-1.302	1	6	
	72 x 72	72.75 x 72.75	1.156-1.302	1	6	
	72 x 96	72.75 x 97.00	1.156-1.302	1	5	

THICKNESS	BILLING SIZE	ACTUAL SIZE	TOLERANCE RANGE	SHEETS PER CASE	SHEETS PER PALLET
1.250BR	48 x 72	48.50 x 72.75	1.156-1.344	2	10
	48 x 96	48.50 x 97.00	1.156-1.344	1	7
	60 x 72	60.75 x 72.75	1.156-1.344	1	7
	60 x 96	60.75 x 97.00	1.156-1.344	1	6
	72 x 72	72.75 x 72.75	1.156-1.344	1	6
	72 x 96	72.75 x 97.00	1.156-1.344	1	5
1.500	36 x 48	37.00 x 49.00	1.379-1.539	2	18
	48 x 72	48.50 x 72.75	1.379-1.539	1	9
	48 x 96	48.50 x 97.00	1.379-1.539	1	7
	60 x 72	60.75 x 72.75	1.379-1.539	1	7
	60 x 96	60.75 x 97.00	1.341-1.577	1	6
	72 x 72	72.75 x 72.75	1.341-1.577	1	6
72 x 96	72.75 x 97.00	1.341-1.577	1	5	
1.750	48 x 72	48.50 x 72.75	1.613-1.799	1	8
	48 x 96	48.50 x 97.00	1.613-1.799	1	6
	60 x 72	60.75 x 72.75	1.613-1.799	1	6
	60 x 96	60.75 x 97.00	1.570-1.842	1	5
	72 x 72	72.75 x 72.75	1.570-1.842	1	5
	72 x 96	72.75 x 97.00	1.570-1.842	1	4
2.000	36 x 48	37.00 x 49.00	1.848-2.058	2	14
	48 x 72	48.50 x 72.75	1.848-2.058	1	7
	48 x 96	48.50 x 97.00	1.848-2.058	1	6
	60 x 72	60.75 x 72.75	1.848-2.058	1	6
	60 x 96	60.75 x 97.00	1.798-2.108	1	5
	72 x 72	72.75 x 72.75	1.798-2.108	1	5
72 x 96	72.75 x 97.00	1.798-2.108	1	4	
2.250	48 x 72	48.50 x 72.75	2.084-2.320	1	5
	48 x 96	48.50 x 97.00	2.084-2.320	1	4
	60 x 72	60.75 x 72.75	2.084-2.320	1	4
	60 x 96	60.75 x 97.00	2.084-2.320	1	3
	72 x 72	72.75 x 72.75	2.084-2.320	1	4
	72 x 96	72.75 x 97.00	2.084-2.320	1	3
2.500	48 x 72	48.50 x 72.75	2.319-2.579	1	4
	48 x 96	48.50 x 97.00	2.319-2.579	1	4
	60 x 72	60.75 x 72.75	2.319-2.579	1	4
	60 x 96	60.75 x 97.00	2.319-2.579	1	3
	72 x 72	72.75 x 72.75	2.319-2.579	1	3
	72 x 96	72.75 x 97.00	2.319-2.579	1	2
2.750	48 x 72	48.50 x 72.75	2.556-2.842	1	5
	48 x 96	48.50 x 97.00	2.556-2.842	1	3
	60 x 72	60.75 x 72.75	2.556-2.842	1	4
	60 x 96	60.75 x 97.00	2.556-2.842	1	3
	72 x 72	72.75 x 72.75	2.556-2.842	1	3
	72 x 96	72.75 x 97.00	2.556-2.842	1	2
3.000	36 x 48	36.50 x 48.50	2.792-3.102	1	6
	48 x 72	48.50 x 72.75	2.792-3.102	1	4
	48 x 96	48.50 x 97.00	2.792-3.102	1	3
	60 x 72	60.75 x 72.75	2.792-3.102	1	3
	60 x 96	60.75 x 97.00	2.792-3.102	1	2
	72 x 72	72.75 x 72.75	2.792-3.102	1	3
72 x 96	72.75 x 97.00	2.792-3.102	1	2	
3.250	48 x 72	48.50 x 72.75	3.028-3.364	1	4
	48 x 96	48.50 x 97.00	3.028-3.364	1	3
	60 x 72	60.75 x 72.75	3.028-3.364	1	3
	60 x 96	60.75 x 97.00	3.028-3.364	1	2
	72 x 72	72.75 x 72.75	3.028-3.364	1	2
	72 x 96	72.75 x 97.00	3.028-3.364	1	2
3.500	48 x 72	48.50 x 72.75	3.261-3.621	1	3
	48 x 96	48.50 x 97.00	3.261-3.621	1	2
	60 x 72	60.75 x 72.75	3.261-3.621	1	2
	60 x 96	60.75 x 97.00	3.261-3.621	1	2
	72 x 72	72.75 x 72.75	3.261-3.621	1	2
	72 x 96	72.75 x 97.00	3.261-3.621	1	2
3.750	48 x 72	48.50 x 72.75	3.498-3.884	1	3
	48 x 96	48.50 x 97.00	3.498-3.884	1	2
	60 x 72	60.75 x 72.75	3.498-3.884	1	2
	60 x 96	60.75 x 97.00	3.498-3.884	1	2
	72 x 72	72.75 x 72.75	3.498-3.884	1	2
	72 x 96	72.75 x 97.00	3.498-3.884	1	2
4.000	36 x 48	36.50 x 48.50	3.732-4.142	1	6
	48 x 72	48.50 x 72.75	3.732-4.142	1	3
	48 x 96	48.50 x 97.00	3.732-4.142	1	2
	60 x 72	60.75 x 72.75	3.732-4.142	1	2
	60 x 96	60.75 x 97.00	3.732-4.142	1	2
	72 x 72	72.75 x 72.75	3.732-4.142	1	2
72 x 96	72.75 x 97.00	3.732-4.142	1	2	
4.250	48 x 72	48.50 x 72.75	3.970-4.400	1	3
	48 x 96	48.50 x 97.00	3.970-4.400	1	2
	60 x 72	60.75 x 72.75	3.970-4.400	1	2
	60 x 96	60.75 x 97.00	3.970-4.400	1	2
	72 x 72	72.75 x 72.75	3.970-4.400	1	2
	72 x 96	72.75 x 97.00	3.970-4.400	1	2

OVERSIZED SHEET

THICKNESS	BILLING SIZE	ACTUAL SIZE	TOLERANCE RANGE	SHEETS PER CASE
0.125	48 x 120	48.75 x 121.75	.085-.155	10
	60 x 120	61.00 x 121.75	.085-.155	8
	72 x 120	73.00 x 121.75	.085-.155	6
0.150	48 x 120	48.75 x 121.75	.109-.179	8
	60 x 120	61.00 x 121.75	.109-.179	7
	72 x 120	73.00 x 121.75	.109-.179	6
0.187	48 x 120	48.75 x 121.75	.144-.214	7
	60 x 120	61.00 x 121.75	.144-.214	6
	72 x 120	73.00 x 121.75	.144-.214	5
0.220	48 x 120	48.75 x 121.75	.170-.250	6
	60 x 120	61.00 x 121.75	.170-.250	5
	72 x 120	73.00 x 121.75	.170-.250	5
0.250	48 x 120	48.75 x 121.75	.200-.280	5
	60 x 120	61.00 x 121.75	.200-.280	4
	72 x 120	73.00 x 121.75	.200-.280	3
0.312	48 x 120	48.75 x 121.75	.254-.344	4
	60 x 120	61.00 x 121.75	.254-.344	3
	72 x 120	73.00 x 121.75	.254-.344	3
0.375	48 x 120	48.75 x 121.75	.310-.410	3
	60 x 120	61.00 x 121.75	.310-.410	3
	72 x 120	73.00 x 121.75	.310-.410	2
0.500	48 x 120	48.75 x 121.75	.425-.535	3
	60 x 120	61.00 x 121.75	.425-.535	2
	72 x 120	73.00 x 121.75	.425-.535	2
0.750	48 x 120	48.75 x 121.75	.690-.810	1
	60 x 120	61.00 x 121.75	.690-.810	1
	72 x 120	73.00 x 121.75	.690-.810	1
	72 x 120	73.00 x 121.75	.690-.810	1
1.000	48 x 120	48.75 x 121.75	.888-1.048	1
	60 x 120	61.00 x 121.75	.888-1.048	1
	72 x 120	73.00 x 121.75	.888-1.048	1
1.250	48 x 120	48.75 x 121.75	1.156-1.302	1
	60 x 120	61.00 x 121.75	1.156-1.302	1
	72 x 120	73.00 x 121.75	1.156-1.302	1
1.500	48 x 120	48.75 x 121.75	1.341-1.577	1
	60 x 120	61.00 x 121.75	1.341-1.577	1
	72 x 120	73.00 x 121.75	1.341-1.577	1
2.000	48 x 120	48.75 x 121.75	1.798-2.108	1
	60 x 120	61.00 x 121.75	1.798-2.108	1
	72 x 120	73.00 x 121.75	1.798-2.108	1
2.500	48 x 120	48.75 x 121.75	2.319-2.579	1
	60 x 120	61.00 x 121.75	2.319-2.579	1
	72 x 120	73.00 x 121.75	2.319-2.579	1
3.000	48 x 120	48.75 x 121.75	2.792-3.102	1
	60 x 120	61.00 x 121.75	2.792-3.102	1
	72 x 120	73.00 x 121.75	2.792-3.102	1
3.500	48 x 120	48.75 x 121.75	3.261-3.621	1
	60 x 120	61.00 x 121.75	3.261-3.621	1
	72 x 120	73.00 x 121.75	3.261-3.621	1
4.000	48 x 120	48.75 x 121.75	3.732-4.142	1
	60 x 120	61.00 x 121.75	3.732-4.142	1
	72 x 120	73.00 x 121.75	3.732-4.142	1

CONDITIONS AND TERMS OF SALE

MINIMUM PREPAID SHIPMENTS

Seller will prepay freight on a minimum shipment of one regular case to one destination within the continental U.S. except Alaska and Hawaii. Seller reserves the right to select method, route, carrier and point of origin.

MASKED MATERIAL

Prices distributed are for sheet with low-tack masking on two sides unless otherwise specified.

TRIMMED MATERIAL

Sheets will be trimmed, unless specified otherwise.

QUOTES

Colors, sizes, quantities and thicknesses not listed in our catalog pages will be quoted upon request.

PACKAGES

Seller has a wide variety of packaging plans available to meet your needs. Please refer to your current Price List for details on such packaging plans as MIXED CASES, STANDARD and NON STANDARD MIXED PALLETS to mention just a few. Refer to inside back cover of this catalog for Standard Packing quantities.



Polycast
70 Carlisle Place
Stamford, CT 06902

Phone: 1-800-243-9002
203-327-6010
Fax: 1-800-631-4005
Int'l. Fax: 203-323-2925

Visit our website at:
www.dss.polyone.com/polycast

or email us at:
polycast.marketing@polyone.com



**Made in the
USA**

PolyOne

GENERAL CATALOG

CONDITIONS AND TERMS OF SALES

1%, 10, net 30 days, F.O.B. plant or warehouse. Interest will be charged after maturity at the rate of 1 1/2% per month or the maximum state legal interest rate, whichever is lower.

NOTE: Shipments against order will be billed at prices and terms in effect on date of shipment. Prices subject to change without notice.

No claim of any kind shall be greater in amount than the purchase price of the goods in respect to which such damages are claimed. Failure to give notice of claim in writing within thirty (30) days from the date of delivery, shall constitute a waiver by Buyer of all claims in respect to such goods. The remedy hereby provided shall be the exclusive and sole remedy of the Buyer; and right of the Buyer to consequential damages is excluded. No claim will be allowed unless approved in writing by an authorized representative of Seller. Goods shall not be returned to Seller without Seller's authorization. All goods returned shall be packaged to prevent subsequent damage. Credit will be issued according to the condition in which the sheets are returned. No liability shall result from delay in performance or non-performance, caused by circumstances beyond the control of Seller, including, but not limited to: act of God, fire, flood, war, Government action, accident, labor trouble or shortage, inability to obtain material, equipment or transportation. Quantities so affected may be eliminated from the order without liability, but the order shall remain otherwise unaffected. If, by reason of any such circumstances, Seller is unable to supply the total demand for products specified herein, Seller may distribute its available supply among any or all purchasers, on such basis as it may deem fair and practical without liability for any failure of performance which may result therefrom. Seller may discontinue performance if Buyer's credit becomes unsatisfactory to Seller. Upon request, Seller will endeavor to furnish such technical advice as it has available in reference to the use of its products by Buyer. It is expressly understood that any technical advice furnished by Seller with reference to the use of its products is given gratis, and the Seller assumes no obligation or liability for the advice given or results obtained. All such advice being given and accepted at Buyer's risk.

These conditions of sale supersede all prior or contemporary oral or written understandings, agreements, or recommendations and may not be added to, modified, rescinded, or waived, in whole or part, except by a writing signed by an authorized representative of Seller, not withstanding any language that may be contained in any form of Buyer and not withstanding any delivery of goods by Seller.

CANCELLATION POLICY

No cancellation charge on any material if cancelled before manufacture.

25% cancellation charge for stock items PLUS freight, warehousing and handling if cancelled material was shipped.

60% cancellation charge on non-stock special items which were manufactured, PLUS freight, warehousing and handling if cancelled material was shipped.