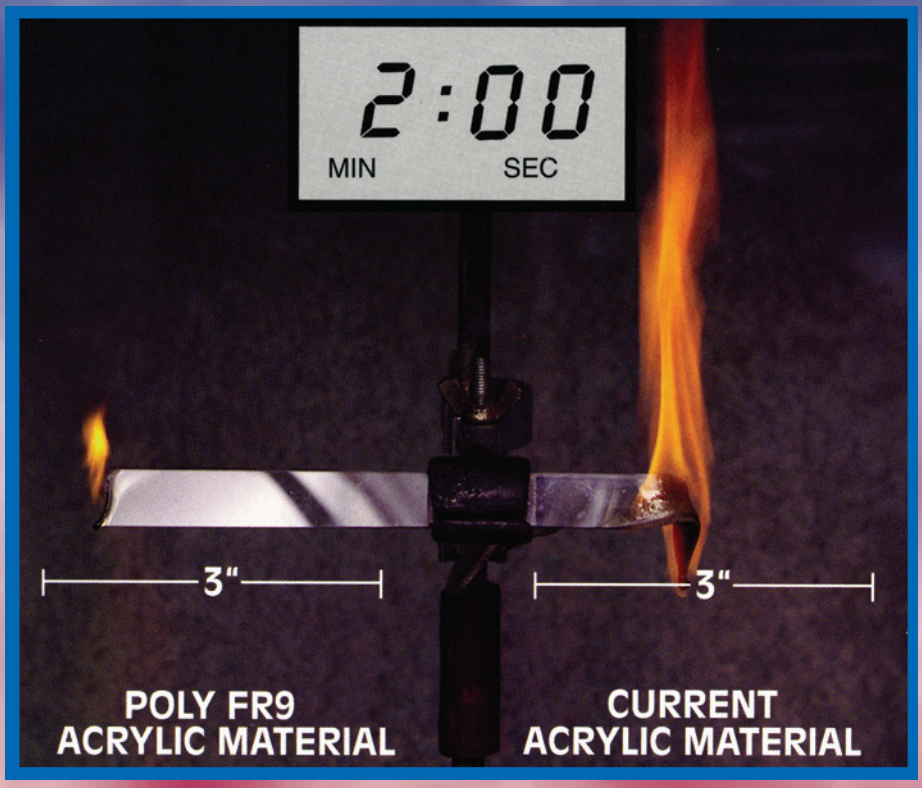
POLYCAST® FR9™

FLAME RESISTANT ACRYLIC

THE ALTERNATIVE

for aircraft interior applications

LOW FLAME SPREAD
LOW SMOKE GENERATION



Based on ASTM D635, Polycast POLY FR9 acrylic material burns at about one-fifth the rate of current acrylic materials. Now those who wish to have an environment with low flame spread and reduced smoke generation have a better choice.

POLYCAST®

CELL CAST ACRYLIC

Discover the better choice for interior acrylic applications.

POLY FR9 interior acrylic material is ideal in the following rotary and fixed wing aircraft applications where low flame spread and low smoke generation are desirable:

- Scratch panels/dust covers
- Lenses
- Light covers
- Signs
- Acrylic panels
- Visors/shades

Meets the test requirements of MIL-PRF-5425

Meets the test requirements for Building Materials Ratings of CC1.

Available in PILOTS CHOICE™

To learn more about POLY FR9 acrylic material for aircraft interior applications, contact us at:

POLYCAST®
CELL CAST ACRYLIC

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PolyOne™

PLEASE NOTE - results from flammability test are in no way intended to depict hazard under actual fire conditions. Each user should test to determine suitability of the product for his own application.

Typical Physical Properties for Polycast POLY FR9

Property	Test Method	MIL-PRF-5425 Requirement For .060"	Typical Value
Specific Gravity	ASTM D792	1.19 (+/-.01)	1.19
Tensile Strength	ASTM D638	> 8,000 psi	10,500
Tensile Elongation	ASTM D638	> 2%	4.5
Tensile Modulus	ASTM D638	400,000 psi	450,000
Internal Strain	MIL-PRF-5425	< 1.0%	< 1.0
Refractive Index	ASTM D542	1.49 (+/-.01)	1.493
D.T.U.L.	ASTM D648	> 85 C	96
Flammability	ASTM D635	< 2.5 in/min	< 0.3
Thermal Stability	MIL-PRF-5425	2 hr @ 180 C	(Pass)
Luminous Transm. (clear sheet)	ASTM D1003	> 91%	92
Haze	ASTM D1003	< 3.0%	< 0.5
U.V. Transmission	MIL-PRF-5425	< 5% @ 290-330 nm	0
Water Absorption (short term)	ASTM D570	< 1.0%	0.65
Additional Properties (non-MIL-Spec)			
Flammability as per	ASTM D635	No dripping during burn. Visually low smoke.	
Smoke Density	ASTM D2843	Max smoke: 13.0%* Smoke Density Rating; 23.2%**	
Surface Hardness	ASTM D785	96 Rockwell "M"	
Ignition Temperature	ASTM D1929	340 C	

*STD Acrylic: 13.3%; Coated Polycarb: 73.4%

** STD Acrylic: 6.3%; Coated Polycarb: 93.8%

ISO 9001:2008 REGISTERED FIRM

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Made in the USA