

## TECAFINE® PP - Stock Shapes

### Chemical Designation

PP (Polypropylene)

### Colour

white

### Density

0.9 g/cm<sup>3</sup>

### Main features

- excellent chemical resistance
- high purity
- good mechanical properties
- very low water absorption

### Target Industries

- chemical plant engineering
- cleanroom technology
- food processing
- food engineering
- pharmaceutical industry
- filter technology
- nuclear and vacuum technology

<b>Mechanical properties</b>	<b>condition</b>	<b>value</b>		<b>test method</b>	<b>comment</b>
Modulus of elasticity (tensile test)	@ 73 °F	105,000	psi	ASTM D 638	
Tensile strength at break	@ 73 °F	3,900	psi	ASTM D 638	
Elongation at break	@ 73 °F	500	%	ASTM D 638	
Flexural strength	@ 73 °F	4,500	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73 °F	165,000	psi	ASTM D 790	
Notched impact strength (Izod)	@ 73 °F	2.1	ft-lbs/in	ASTM D 256	
Rockwell hardness	M Scale, @ 73 °F	95		-	
Rockwell hardness	R Scale	102		ASTM D 785	
<b>Thermal properties</b>	<b>condition</b>	<b>value</b>		<b>test method</b>	<b>comment</b>
Melting temperature		297	°F	-	1) (1) per ASTM D3418 (2) Resin data
Deflection temperature	@66 psi	165	°F	ASTM D 648	2)
<b>Other properties</b>	<b>condition</b>	<b>value</b>		<b>test method</b>	<b>comment</b>
Moisture absorption	@ 24 hrs, 73 °F	0.06	%	ASTM D 570	

→ Resin specification:  
ASTM D4101-10a PP0210  
Shapes specification:  
NONE

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