

TECAFINE® PP - Stock Shapes (rods, plates, tubes)

Chemical Designation

PP (Polypropylene)

Colour

white

Density

0.9 g/cm³

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

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
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	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Melting temperature		297 °F	-	1) (1) per ASTM D3418 (2) Resin data
Deflection temperature	@66 psi	165 °F	ASTM D 648	2)
<i>Other properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Moisture absorption	@ 24 hrs, 73 °F	0.06 %	ASTM D 570	

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

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Date: 2017/10/04

Version: A1