TECAFINE ® PP - Stock Shapes

Chemical Designation
PP (Polypropylene)

Colour
white

Density
0.9 g/cm^3

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

Mechanical properties	condition	value		test method	comment
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	R Scale	102		ASTM D 785	
Rockwell hardness	M Scale, @ 73 °F	95		-	

Thermal properties	condition	value		test method		comment
Melting temperature		297	°F	-	1)	(1) per ASTM D3418 (2) Resin data
Deflection temperature	@66 psi	165	°F	ASTM D 648	2)	

Other properties	condition	value		test method	comment
Moisture absorption	@ 24 hrs, 73 °F	0.06	%	ASTM D 570	

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

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