ISO 9001:2008 and ISO 13485:2003 Certified

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TECAFINE ® PP - Stock Shapes

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
- → pharmaceutical industry
- → nuclear and vacuum technology
- → filter technology

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Mechanical properties	condition	value		test method		comment
Modulus of elasticity (tensile test)	@ 73 °F	130,000	psi	ASTM D 638		
Tensile strength at break	@ 73 °F	4,700	psi	ASTM D 638		
Elongation at break	@ 73 °F	100	%	ASTM D 638	_	
Flexural strength	@ 73 °F	6,000 - 8,000	psi	ASTMD790		_
Modulus of elasticity (flexural test)	@ 73 °F	180,000	psi	ASTMD790		_
Notched impact strength (Izod)	@ 73 °F	0.9	ft-lbs/in	ASTM D 256	_	
Rockwell hardness	R Scale	90		ASTM D 785		
Thermal properties	condition	value		test method		comment
Melting temperature		330	°F	-	1)	(1) per ASTM D3418
Deflection temperature	@264 psi	130	°F	ASTM D 648		
Thermal expansion (CLTE)		5*10 ⁻⁵	in/in/°F	ASTM D 696		
Electrical properties	condition	value		test method		comment
Volume resistivity	@ 73 °F	1*10 ¹⁷	Ω*cm	ASTM D 257		
Dielectric constant	@ 60 Hz, 73 °F, 50% RH	2.2		ASTM D 150		.
Other properties	condition	value		test method		comment
Moisture absorption	@ 24 hrs, 73 °F	0.01 - 0.03	%	ASTM D 570		
Flammability (UL94)		НВ		-		-

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at www.ensinger-inc.com.



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