DDER plastic

"Setting the Standards in Plastics Distribution"™ ISO 9001:2008 and ISO 13485:2003 Certified 88 Long Hill Cross Road, Shelton, Connecticut, 06484 USA ModernPlastics.com - National Toll-Free: 800.243.9696 Phone: 203.333.3128 - Fax: 203.333.4625 sales@modernplastics.com

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
Machanical properties	walue

Target Industries

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

Mechanical properties	condition	value		test method		comment
Modulus of elasticity (tensile test)	@ 73 °F	130,000	psi	ASTMD 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	ASTMD 790		
Modulus of elasticity (flexural test)	@ 73 °F	180,000	psi	ASTMD 790		
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	ASTMD 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	%	ASTMD 570		_
Flammability (UL94)		HB		-		-

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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