

# TECAFINE® PP

Polypropylene Random Copolymer

Ensinger Inc.

## Message:

TECAFINE™PP (polypropylene) is an anti-static, poly-propylene, random copolymer polyolefin engineering plastic providing excellent chemical resistance and high purity. FDA compliant with better mechanical properties than other typical polyolefin materials, it is light weight, weldable, and unaffected by moisture. Ensinger's unique processing technology provides unsurpassed quality in TECAFINE™PP stock shapes.

TECAFINE™PP's excellent chemical resistance and high purity characteristics make it ideal for use in the food-processing and chemical-processing industries. Common applications include pump and valve components, tanks, laboratory equipment, and other parts in contact with corrosive environments.

General Information			
Features	High purity		
	Moisture resistance		
	Solvent resistance		
	Weldable		
	Good chemical resistance		
	acid resistance		
	Compliance of Food Exposure		
	Random copolymer		
Uses	Pump parts		
	Valve/valve components		
	Non-specific food applications		
	Laboratory apparatus		
	Water tank		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792
Water Absorption (23°C, 24 hr)	0.010 - 0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	896	MPa	ASTM D638
Tensile Strength (Break, 23°C)	32.4	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	100	%	ASTM D638
Flexural Modulus (23°C)	1240	MPa	ASTM D790
Flexural Strength (23°C)	41.4 - 55.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	48	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	54.4	°C	ASTM D648
Peak Melting Temperature	166	°C	ASTM D3418
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+17	ohms·cm	ASTM D257
Dielectric Constant <sup>1</sup> (23°C, 60 Hz)	2.20		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information			
Data obtained from extruded shapes material.			
NOTE			
1.	50% RH		

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