

## Ensinger TECAFINE™ PP Polypropylene (PP)

Category : Polymer , Thermoplastic , Polyolefin , Polypropylene (PP) , Polypropylene Copolymer

### Material Notes:

TECAFINE™ PP is an anti-stated, polypropylene, 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 processing technology provides quality in TECAFINE™ PP stock shapes. Excellent chemical resistance (TECAFINE™ PP is resistant to organic chemicals, solvents, mineral acids, and inorganic salts) Weldable High purity (nonparticulating and suitable for high purity environments) FDA compliant (meets FDA 21 CFR 177.1520) Light weight (has a specific gravity of less than 1) Moisture resistant (unaffected by water or moist environments) Great quality (Ensinger's extrusion expertise means users consistently obtain the highest quality polypropylene 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. Information Provided by Ensinger Industries, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ensinger-TECAFINE-PP-Polypropylene-PP.php](http://www.lookpolymers.com/polymer_Ensinger-TECAFINE-PP-Polypropylene-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	ASTM D792
Density	0.913 g/cc	0.0330 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.010 - 0.030 % @Temperature 22.8 °C, Time 86400 sec	0.010 - 0.030 % @Temperature 73.0 °F, Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength at Break	32.4 MPa @Temperature 22.8 °C	4700 psi @Temperature 73.0 °F	ASTM D638
Elongation at Break	100 % @Temperature 22.8 °C	100 % @Temperature 73.0 °F	ASTM D638
Tensile Modulus	0.896 GPa @Temperature 22.8 °C	130 ksi @Temperature 73.0 °F	ASTM D638
Flexural Strength	41.4 - 55.2 MPa @Temperature 22.8 °C	6000 - 8000 psi @Temperature 73.0 °F	ASTM D790
Flexural Modulus	1.24 GPa @Temperature 22.8 °C	180 ksi @Temperature 73.0 °F	ASTM D790

Mechanical Properties	0.481 J/cm Metric	0.900 ft-lb/in English	Comments
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D696
Melting Point	166 °C	330 °F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	54.4 °C	130 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm @Temperature 22.8 °C	1.00e+17 ohm-cm @Temperature 73.0 °F	ASTM D257
Dielectric Constant	2.2 @Frequency 60.0 Hz, Temperature 22.8 °C	2.2 @Frequency 60.0 Hz, Temperature 73.0 °F	50% RH; ASTM D150

## Contact Songhan Plastic Technology Co.,Ltd.

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