

## Ensinger TECASON™ P MT Polyphenylsulfone (PPSU)

Category : Polymer , Thermoplastic , Polyphenylsulfone (PPSU)

### Material Notes:

TECASON™ P MT is a polyphenylsulfone suited primarily to applications in the medical industry. It has improved performance in terms of temperature, impact strength and chemical resistance, as well as exceptional resistance to repeated autoclave cycles. It is available in several colored and transparent grades, and is tested to the requirements of ISO 10993.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ensinger-TECASON-P-MT-Polyphenylsulfone-PPSU.php](http://www.lookpolymers.com/polymer_Ensinger-TECASON-P-MT-Polyphenylsulfone-PPSU.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Water Absorption	0.37 %	0.37 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Water Absorption at Saturation	1.1 %	1.1 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	123	123	ASTM D785
Tensile Strength, Yield	69.6 MPa	10100 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	2.34 GPa	340 ksi	ASTM D638
Flexural Strength	91.0 MPa	13200 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Compressive Strength	98.94 MPa	14350 psi	ASTM D695
Izod Impact, Unnotched	6.94 J/cm	13.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	30.6 µm/m-°C	17.0 µin/in-°F	ASTM D696
Maximum Service Temperature, Air	182 °C	360 °F	Intermittent
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	420 °F	ASTM D648
Vicat Softening Point	218 °C	424 °F	ASTM D1525

Flammability III 94 Thermal Properties	V-0 Metric	V-0 English	III 94 Comments
<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.44 @Frequency 60.0 Hz	3.44 @Frequency 60.0 Hz	50% RH; ASTM D150
Dielectric Strength	14.2 kV/mm	360 kV/in	ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

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