

## Ensinger TECASON™ P Polyphenylsulfone (PPSU)

Category : Polymer , Thermoplastic , Polyphenylsulfone (PPSU)

### Material Notes:

TECASON™ P is a polyphenylsulfone that exhibits excellent temperature, impact and chemical resistance properties.

Order this product through the following link:

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

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 $\mu\text{m}/\text{m}\cdot\text{°C}$	17.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	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, UL94	V-0	V-0	UL 94

Electrical Properties	Metric	English	Comments
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.**

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**