

Isoflon PSU Polysulfone

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Electrical insulating products Rigid High chemical, fire and temperature resistance Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PSU-Polysulfone.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	DIN 53479
Water Absorption	0.30 %	0.30 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	69	69	ASTM D785
Tensile Strength	70.0 MPa	10200 psi	DIN 53455
Elongation at Break	50 %	50 %	DIN 53455
Tensile Modulus	2.70 GPa	392 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	56.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	31.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 52328
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Melting Point	190 $\text{Å}^\circ\text{C}$	374 $\text{Å}^\circ\text{F}$	DIN 53736
Maximum Service Temperature, Air	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	Continuous; DIN 52612
Deflection Temperature at 1.8 MPa (264 psi)	175 $\text{Å}^\circ\text{C}$	347 $\text{Å}^\circ\text{F}$	
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	DIN 53482
Dielectric Constant	3.1 @Frequency 1000 Hz	3.1 @Frequency 1000 Hz	DIN 53483
Dielectric Strength	25.0 - 30.0 kV/mm	635 - 762 kV/in	DIN 53481

Descriptive Properties	Value	Comments
Color	Amber/Yellow Translucent	

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