

Hippe PPS

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS), Unreinforced, Extruded

Material Notes:

High hardness and stiffness, good abrasion resistance, low moisture absorption, favorable insulating features, low dielectric, high non-inflammability and high chemical resistance are the essential properties. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	DIN 53 479
Water Absorption at Saturation	0.010 %	0.010 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	190 MPa @Time 30.0 sec	27600 psi @Time 0.00833 hour	DIN 53 456
Elongation at Break	20 %	20 %	DIN 53 455
Tensile Modulus	4.00 GPa	580 ksi	DIN 53 457
Flexural Modulus	4.20 GPa	609 ksi	from bending test; DIN 53 457
Charpy Impact, Notched	NB	NB	DIN 53 453
Tear Strength Test	80	80	in MPa; DIN 53 455

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	27.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	
Melting Point	280 °C	536 °F	DIN 53 736
Maximum Service Temperature, Air	230 °C	446 °F	Continuous use
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ISO-R 75 Method A
Glass Transition Temp, Tg	88.0 °C	190 °F	dynamic; DIN 53 736
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.50e+16 ohm-cm	4.50e+16 ohm-cm	DIN 53 482, VDE 0303, Part 3

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00×10^6 ohm	1.00×10^6 ohm	DIN 53 482
Dielectric Strength	21.0 kV/mm	533 kV/in	Breakdown; DIN 53 481, IEC-243, VDE 0303 Part 1
Dielectric Loss Index	0.0013	0.0013	DIN 53 483, IEC-250
	@Frequency 1.00×10^6 Hz	@Frequency 1.00×10^6 Hz	

Descriptive Properties	Value	Comments
Color	beige	
Resistance to hot water, suds	resistant	

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