

Hippe PI

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

Wide temperature range for use. High oxidation resistance. UV stability, low coefficient of linear expansion, good strength at high temperatures, resistance against stress cracking. Information provided by Hippe.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	DIN 53 479

Mechanical Properties	Metric	English	Comments
Tensile Strength	86.0 MPa	12500 psi	DIN 53 455
Elongation at Break	7.5 %	7.5 %	DIN 53 455
Tensile Modulus	3.10 GPa	450 ksi	DIN 53 457

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	30.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	250 °C	482 °F	Continuous use
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	DIN 53 482, VDE 0303, Part 3
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	DIN 53 482
Dielectric Constant	3.55 @Frequency 1.00e+6 Hz	3.55 @Frequency 1.00e+6 Hz	DIN 53 483, IEC-250
Dielectric Strength	22.0 kV/mm	559 kV/in	Breakdown; DIN 53 481, IEC-243, VDE 0303 Part 1
Dielectric Loss Index	0.0034 @Frequency 1.00e+6 Hz	0.0034 @Frequency 1.00e+6 Hz	DIN 53 483, IEC-250

Descriptive Properties	Value	Comments
Color	brown	
Resistance to hot water, suds	resistant in some conditions	

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