

Ensinger Hydrel® PEI-7 Polyetherimide (PEI), Static Dissipative

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

A static dissipative polyetherimide utilizing proprietary filler technology which renders this material electrically conductive. This technology allows for good dimensional stability after machining (unlike conventional carbon fibers), consistent electrical properties, excellent surface quality and minimal sloughing. It also possesses outstanding toughness and excellent thermal stability. Information Provided by Ensinger Industries, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Hydrel-PEI-7-Polyetherimide-PEI-Static-Dissipative.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Water Absorption	0.25 % @Temperature 22.8 °C, Time 86400 sec	0.25 % @Temperature 73.0 °F, Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	64.8 MPa	9400 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	ASTM D638
Flexural Strength	112 MPa	16200 psi	ASTM D790
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Compressive Strength	112 MPa	16200 psi	ASTM D695
Izod Impact, Notched	0.747 J/cm	1.40 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	52.2 µm/m-°C	29.0 µin/in-°F	
Maximum Service Temperature, Air	171 °C	340 °F	continuous
Deflection Temperature at 1.8 MPa (264 psi)	199 °C	390 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	1.00e+6 - 1.00e+9 ohm	1.00e+6 - 1.00e+9 ohm	ASTM D257

Descriptive Properties	Value	Comments
Base Material	Polycarbonate	

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