

GEHR Plastics Ultem 2300 PEI-30 GF 30% Glass Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), 30% Glass Fiber

Material Notes:

Polyetherimide has a high mechanical strength in connection with a good chemical and heat resistance, good dimensional stability and great resistance. It's unique torque strength permits the economical substitution of machined fabricated small parts from steel. Main Characteristics: higher thermal properties; excellent dimensional stability; much higher stiffness Information provided by GEHR Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GEHR-Plastics-Ultem-2300-PEI-30-GF-30-Glass-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
Water Absorption	0.18 %	0.18 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	114	114	ASTM D785
Tensile Strength at Break	160 MPa	23200 psi	ASTM D1708
Tensile Strength, Yield	169 MPa	24500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D1708
Modulus of Elasticity	9.31 GPa	1350 ksi	ASTM D638
Flexural Strength	228 MPa	33000 psi	ASTM D 790
Izod Impact, Notched (ISO)	3.93 kJ/m ²	1.87 ft-lb/in ²	ASTM D256
Izod Impact, Unnotched (ISO)	16.9 kJ/m ²	8.06 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	19.8 µm/m-°C	11.0 µin/in-°F	ASTM D696
Maximum Service Temperature, Air	170 °C	338 °F	
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	HDT/A; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	212 °C	414 °F	HDT/B; ASTM D648
Vicat Softening Point	228 °C	442 °F	VST/B/50; ASTM D1525
Flammability, UL94			

Thermal Properties	V-0 Metric	V-0 English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{13}$ ohm-cm	$\geq 1.00 \times 10^{13}$ ohm-cm	ASTM D257
Surface Resistivity per Square	1.00×10^{16} ohm	1.00×10^{16} ohm	ASTM D257
Dielectric Constant	3.4	3.4	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	1.38 kV/mm	35.0 kV/in	ASTM D139
Dissipation Factor	0.0023	0.0023	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	150 V	150 V	VDE 0303

Descriptive Properties	Value	Comments
Acid Resistance	Yes	
Aromatic Resistance	Yes	
Bondability	Yes	
CKW Resistance	Limited	
Hydrocarbonate Resistance	Yes	
Hydroxide Resistance	Yes	
Ketone Resistance	No	
Physiological indifference according	On Request	
Resistance to Hot Water	Yes	
UV Stabilization	Limited	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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