

EPICHEM Epinyl PA 66 GF25 AU Polyamide 66, 25% Glass, Self extinguishing

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Characteristics: 25% glass fibre filled

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epinyl-PA-66-GF25-AU-Polyamide-66-25-Glass-Self-extinguishing.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792, ISO 1183
Water Absorption	1.9 % @Temperature 23.0 °C	1.9 % @Temperature 73.4 °F	24h; ASTM D570, ISO 62
Linear Mold Shrinkage	0.0030 - 0.0090 cm/cm	0.0030 - 0.0090 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	110	110	ASTM D785, ISO 2039/2
Tensile Strength, Yield	130 MPa	18900 psi	ASTM D638, ISO R527
Elongation at Break	3.5 %	3.5 %	ASTM D638, ISO R527
Flexural Strength	165 MPa	23900 psi	ASTM D790, ISO 178
Flexural Modulus	8.00 GPa	1160 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.700 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	1.31 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256, ISO 180/4a

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	20000 h; VDE 0304/P2-1, IEC 216
	110 °C	230 °F	5000 h; VDE 0304/P2-1, IEC 216
	200 °C	392 °F	few hours; VDE 0304/P2-1, IEC 216
Hot Ball Pressure Test	220 °C	428 °F	BS 3456, IEC 335
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	ASTM D648, ISO 75
Vicat Softening Point	235 °C @Load 5.00 kg	455 °F @Load 11.0 lb	120°C/min; ASTM D1525/B, ISO 306/B
	250 °C	482 °F	

Thermal Properties	Metric @Load 0.999 kg	English @Load 2.20 lb	Comments 120°C/min: ASTM D1525/A, ISO 500/A
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	960 °C	1760 °F	VDE 0471/P2-4, IEC 695
	@Thickness 3.20 mm	@Thickness 0.126 in	
	960 °C	1760 °F	VDE 0471/P2-4, IEC 695
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D257, IEC 93
Dielectric Constant	3.3	3.3	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	80.0 kV/mm	2030 kV/in	ASTM D149, IEC 243
Dissipation Factor	0.015	0.015	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	350 V	350 V	VDE 0303-P1, IEC 112

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