

## EPICHEM PA 6 GF 30 Polyamide 6, 30% Glass

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

### Material Notes:

Characteristics: medium viscosity, 30% glass fibre filled

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EPICHEM-PA-6-GF-30-Polyamide-6-30-Glass.php](http://www.lookpolymers.com/polymer_EPICHEM-PA-6-GF-30-Polyamide-6-30-Glass.php)

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	ASTM D792, ISO 1183
Water Absorption	6.5 %	6.5 %	24h; ASTM D570, ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage	0.0030 - 0.012 cm/cm	0.0030 - 0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	115	115	ASTM D785, ISO 2039/2
Tensile Strength, Yield	160 MPa	23200 psi	ASTM D638, ISO R527
Elongation at Break	4.0 %	4.0 %	ASTM D638, ISO R527
Flexural Strength	220 MPa	31900 psi	ASTM D790, ISO 178
Flexural Modulus	7.50 GPa	1090 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.500 - 0.700 J/cm	0.937 - 1.31 ft-lb/in	ASTM D256, ISO 180/4a
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	105 °C	221 °F	20000 h; VDE 0304/P2-1, IEC 216
	110 °C	230 °F	5000 h; VDE 0304/P2-1, IEC 216
	180 °C	356 °F	few hours; VDE 0304/P2-1, IEC 216
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	ASTM D648, ISO 75
Vicat Softening Point	205 °C	401 °F	120°C/min; ASTM D1525/B, ISO 306/B
	@Load 5.00 kg	@Load 11.0 lb	
	210 °C	410 °F	120°C/min; ASTM D1525/A, ISO 306/A
	@Load 0.999 kg	@Load 2.20 lb	

Thermal Properties Flammability, UL 94	Metric	English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D257, IEC 93
Dielectric Constant	3.4	3.4	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	70.0 kV/mm	1780 kV/in	ASTM D149, IEC 243
Dissipation Factor	0.013	0.013	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	550 V	550 V	VDE 0303-P1, IEC 112

## Contact Songhan Plastic Technology Co.,Ltd.

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