

## EPICHEM Epinyl PA 6 GF 30 H Polyamide 6, 30% Glass, Heat Stabilized

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

### Material Notes:

Characteristics: medium viscosity, 30% glass fibre, heat stabilized

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[http://www.lookpolymers.com/polymer\\_EPICHEM-Epinyl-PA-6-GF-30-H-Polyamide-6-30-Glass-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_EPICHEM-Epinyl-PA-6-GF-30-H-Polyamide-6-30-Glass-Heat-Stabilized.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	0.0020 - 0.010 cm/cm	0.0020 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	115	115	ASTM D785, ISO 2039/2
Tensile Strength, Yield	180 MPa	26100 psi	ASTM D638, ISO R527
Elongation at Break	3.5 %	3.5 %	ASTM D638, ISO R527
Flexural Strength	210 MPa	30500 psi	ASTM D790, ISO 178
	245 MPa	35500 psi	
Flexural Modulus	7.80 GPa	1130 ksi	ASTM D790, ISO 178
Izod Impact, Notched	1.10 J/cm	2.06 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	115 °C	239 °F	20000 h; VDE 0304/P2-1, IEC 216
	120 °C	248 °F	5000 h; VDE 0304/P2-1, IEC 216
	190 °C	374 °F	few hours; VDE 0304/P2-1, IEC 216
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °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	

Thermal Properties	Metric @Load 0.999 kg	English @Load 2.20 lb	Comments 120°C/min: ASTM D1525/A, ISO 500/A
Flammability, UL94	HB	HB	
	@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	3.7	3.7	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	550 V	550 V	VDE 0303-P1, IEC 112

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