

EPICHEM Epinyl PA 6 Polyamide 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Characteristics: medium viscosity, good mechanical properties

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epinyl-PA-6-Polyamide-6.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792, ISO 1183
Water Absorption	9.0 % @Temperature 23.0 °C	9.0 % @Temperature 73.4 °F	24h; ASTM D570, ISO 62
Linear Mold Shrinkage	0.0070 - 0.012 cm/cm	0.0070 - 0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	85 - 100	85 - 100	ASTM D785, ISO 2039/2
Tensile Strength, Yield	80.0 MPa	11600 psi	ASTM D638, ISO R527
Elongation at Break	65 - 100 %	65 - 100 %	ASTM D638, ISO R527
Flexural Strength	90.0 MPa	13100 psi	ASTM D790, ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.500 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	0.937 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	70.0 °C	158 °F	20000 h; VDE 0304/P2-1, IEC 216
	85.0 °C	185 °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)	65.0 °C	149 °F	ASTM D648, ISO 75
Vicat Softening Point	192 °C @Load 5.00 kg	378 °F @Load 11.0 lb	120°C/min; ASTM D1525/B, ISO 306/B
	205 °C @Load 0.999 kg	401 °F @Load 2.20 lb	120°C/min; ASTM D1525/A, ISO 306/A

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	90.0 kV/mm	2290 kV/in	ASTM D149, IEC 243
Dissipation Factor	0.020	0.020	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	600 V	600 V	VDE 0303-P1, IEC 112

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