

EPICHEM PA 66 Polyamide 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-PA-66-Polyamide-66.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792, ISO 1183
Water Absorption	8.0 % @Temperature 23.0 °C	8.0 % @Temperature 73.4 °F	24h; ASTM D570, ISO 62
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	100	100	ASTM D785, ISO 2039/2
Tensile Strength, Yield	75.0 MPa	10900 psi	ASTM D638, ISO R527
Elongation at Break	40 %	40 %	ASTM D638, ISO R527
Flexural Strength	110 MPa	16000 psi	ASTM D790, ISO 178
Flexural Modulus	2.55 GPa	370 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.400 - 0.600 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	0.749 - 1.12 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
	200 °C	392 °F	few hours; VDE 0304/P2-1, IEC 216
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ASTM D648, ISO 75
Vicat Softening Point	225 °C @Load 5.00 kg	437 °F @Load 11.0 lb	120°C/min; ASTM D1525/B, ISO 306/B
	240 °C @Load 0.999 kg	464 °F @Load 2.20 lb	120°C/min; ASTM D1525/A, ISO 306/A
	HB	HB	

Thermal Properties		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	3.5	3.5	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	110 kV/mm	2790 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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