

EPICHEM Epilac T ABS Acrylonitrile Butadiene Styrene

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epilac-T-ABS-Acrylonitrile-Butadiene-Styrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792, ISO 1183
Water Absorption	0.30 % @Temperature 23.0 °C	0.30 % @Temperature 73.4 °F	24h; ASTM D570, ISO 62
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Index of Compound	6.0 - 11 g/10 min @Load 12.0 kg, Temperature 220 °C	6.0 - 11 g/10 min @Load 26.5 lb, Temperature 428 °F	ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D638, ISO R527
Elongation at Break	20 %	20 %	ASTM D638, ISO R527
Flexural Strength	60.0 MPa	8700 psi	ASTM D790, ISO 178
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.500 - 0.600 J/cm @Thickness 3.20 mm, Temperature -30.0 °C	0.937 - 1.12 ft-lb/in @Thickness 0.126 in, Temperature -22.0 °F	ASTM D256, ISO 180/4a
	0.700 - 1.10 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	1.31 - 2.06 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ASTM D256, ISO 180/4a
	1.20 - 1.50 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	2.25 - 2.81 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256, ISO 180/4a

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	>= 100 °C	>= 212 °F	BS 3456, IEC 335
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ASTM D648, ISO 75
	105 - 110 °C	221 - 230 °F	120°C/min; ASTM D1525/B, ISO

Vicat Softening Point Thermal Properties	Metric @Load 5.00 kg	English @Load 11.0 lb	306/B Comments
	115 - 118 °C @Load 0.999 kg	239 - 244 °F @Load 2.20 lb	120°C/min; ASTM D1525/A, ISO 306/A
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	
Glow Wire Test	650 °C @Thickness 3.20 mm	1200 °F @Thickness 0.126 in	VDE 0471/P2-4, IEC 695
	650 °C @Thickness 2.00 mm	1200 °F @Thickness 0.0787 in	VDE 0471/P2-4, IEC 695

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257, IEC 93
Dielectric Constant	3.2 @Frequency 1000 Hz	3.2 @Frequency 1000 Hz	ASTM D150, IEC 250
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149, IEC 243
Dissipation Factor	0.015 @Frequency 1000 Hz	0.015 @Frequency 1000 Hz	ASTM D150, IEC 250
Comparative Tracking Index	600 V	600 V	VDE 0303-P1, IEC 112

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