

EPICHEM Epilac ABS-BLACK Acrylonitrile Butadiene Styrene

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epilac-ABS-BLACK-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	15 - 20 g/10 min @Load 10.0 kg, Temperature 220 °C	15 - 20 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	105	105	ASTM D785, ISO 2039/2
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D638, ISO R527
Elongation at Break	>= 25 %	>= 25 %	ASTM D638, ISO R527
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790, ISO 178
Izod Impact, Notched	>= 1.20 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	>= 2.25 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256, ISO 180/4a

Thermal Properties	Metric	English	Comments
Vicat Softening Point	>= 95.0 °C @Load 5.00 kg	>= 203 °F @Load 11.0 lb	120°C/min; ASTM D1525/B, ISO 306/B
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

Thermal Properties	650 °C Metric	1200 °F English	Comments
	@Thickness 2.00 mm	@Thickness 0.0787 in	UL 94V-0, IEC 60695-2-4, IEC 695

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257, IEC 93

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