

## EPICHEM Epilac 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-ABS-Acrylonitrile-Butadiene-Styrene.php](http://www.lookpolymers.com/polymer_EPICHEM-Epilac-ABS-Acrylonitrile-Butadiene-Styrene.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	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	14 - 20 g/10 min @Load 10.0 kg, Temperature 220 °C	14 - 20 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	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 Strength	65.0 MPa	9430 psi	ASTM D790, ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.600 J/cm @Thickness 3.20 mm, Temperature -30.0 °C	1.12 ft-lb/in @Thickness 0.126 in, Temperature -22.0 °F	ASTM D256, ISO 180/4a
	1.10 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	2.06 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ASTM D256, ISO 180/4a
	1.60 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	3.00 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	>= 80.0 °C	>= 176 °F	BS 3456, IEC 335
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	ASTM D648, ISO 75

Thermal Properties	Metric	English	Comments
Vicat Softening Point	@Load 5.00 kg	@Load 11.0 lb	120 °C/min; ASTM D1525/B, ISO 306/B
	106 °C	223 °F	120 °C/min; ASTM D1525/A, ISO 306/A
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	650 °C	1200 °F	VDE 0471/P2-4, IEC 695
	@Thickness 3.20 mm	@Thickness 0.126 in	
	650 °C	1200 °F	VDE 0471/P2-4, IEC 695
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257, IEC 93
Dielectric Constant	3.2	3.2	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	32.0 kV/mm	813 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	600 V	600 V	VDE 0303-P1, IEC 112

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China