

LG Chemical AF-348 ABS, Flame Retardant, Heat Resistant, Weather Resistant

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-AF-348-ABS-Flame-Retardant-Heat-Resistant-Weather-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 2577
Melt Index of Compound	50.85 g/10 min @Load 10.0 kg, Temperature 220 °C	50.85 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	44.0 MPa	6380 psi	50 mm/min; ISO 527
Elongation at Break	25 %	25 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min; ISO 527
Flexural Yield Strength	67.0 MPa	9720 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	18.0 kJ/m ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	ISO 80
Charpy Impact Unnotched	6.00 J/cm ² @Temperature -30.0 °C	28.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179

Mechanical Properties Charpy Impact, Notched	Metric 1.00 J/cmÂ²	English 4.76 ft-lb/inÂ²	Comments ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	ISO 179
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.0 Â°C	208 Â°F	Annealed, 80Â°C, 4 hours; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	88.0 Â°C	190 Â°F	Annealed, 80Â°C, 4 hours; ISO 175
Vicat Softening Point	93.0 Â°C	199 Â°F	50 N, 50Â°C/h; ISO 306
Flammability, UL94	V-2	V-2	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-2	V-2	
	@Thickness 2.50 mm	@Thickness 0.0984 in	
	V-2	V-2	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.9	2.9	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.0	3.0	IEC 250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.010	0.010	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 240 Â°C	410 - 464 Â°F	
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	
Drying Temperature	75.0 - 80.0 Â°C	167 - 176 Â°F	
Dry Time	2 - 4 hour	2 - 4 hour	Predrying

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