

## LG Chemical EF-378 ABS, Flame Retardant, Halogen Free

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-EF-378-ABS-Flame-Retardant-Halogen-Free.php](http://www.lookpolymers.com/polymer_LG-Chemical-EF-378-ABS-Flame-Retardant-Halogen-Free.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	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	56.5 g/10 min @Load 10.0 kg, Temperature 220 °C	56.5 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 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	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	68.0 MPa	9860 psi	2 mm/min; ISO 178
Flexural Modulus	2.60 GPa	377 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	6.19 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180
	24.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	11.4 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 80
Charpy Impact Unnotched	7.50 J/cm <sup>2</sup> @Temperature -30.0 °C	35.7 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179

Mechanical Properties Charpy Impact, Notched	Metric 1.10 J/cm <sup>2</sup>	English 8.24 ft-lb/in <sup>2</sup>	Comments ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	2.30 J/cm <sup>2</sup>	10.9 ft-lb/in <sup>2</sup>	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)	92.0 Â°C	198 Â°F	Annealed, 80Â°C, 4 hours; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Â°C	180 Â°F	Annealed, 80Â°C, 4 hours; ISO 175
Vicat Softening Point	85.0 Â°C	185 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 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

## 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**