

## LG Chemical AF-320T ABS, Flame Retardant, High Impact, High Flow, Slim Wall

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-320T-ABS-Flame-Retardant-High-Impact-High-Flow-Slim-Wall.php](http://www.lookpolymers.com/polymer_LG-Chemical-AF-320T-ABS-Flame-Retardant-High-Impact-High-Flow-Slim-Wall.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 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	59 g/10 min @Load 10.0 kg, Temperature 220 °C	59 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	42.0 MPa	6090 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	64.0 MPa	9280 psi	2 mm/min; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	14.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	6.66 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180
	28.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	13.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 80
Charpy Impact Unnotched	5.40 J/cm <sup>2</sup> @Temperature -30.0 °C	25.7 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	1.30 J/cm <sup>2</sup> Metric	6.19 ft-lb/in <sup>2</sup> English	Comments ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	3.00 J/cm <sup>2</sup> @Temperature 23.0 Â°C	14.3 ft-lb/in <sup>2</sup> @Temperature 73.4 Â°F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	86.0 Âµm/m-Â°C	47.8 Âµin/in-Â°F	ISO 11359
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
CTE, linear, Transverse to Flow	96.0 Âµm/m-Â°C	53.3 Âµin/in-Â°F	ISO 11359
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
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-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 2.50 mm	@Thickness 0.0984 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 2.10 mm	@Thickness 0.0827 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 93
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 93
Dielectric Constant	2.9	2.9	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.1	3.1	IEC 250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.0125 @Frequency 1e+6 Hz	0.0125 @Frequency 1e+6 Hz	IEC 250
Comparative Tracking Index	500 V	500 V	IEC 112

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