

LG ABS EF378L

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Friday, May 24, 2019

General Information

Product Description

Description

- Halogen-Free, Flame Retardant

Application

- Office Appliances (parts of printer or copier)
- Electric Parts Requiring Flame Retardancy

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Additive	• Flame Retardant	
Features	• Flame Retardant	• Halogen Free
Uses	• Electrical Parts	• Printer Parts
RoHS Compliance	• RoHS Compliant	
Processing Method	• Injection Molding	

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	55	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, 23°C, 4.00 mm, Injection Molded	45.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C, 4.00 mm, Injection Molded	> 5.0	%	
Tensile Strain			ISO 527-2/50
Break, 23°C, 4.00 mm, Injection Molded	15	%	
Flexural Modulus ² (23°C, 4.00 mm, Injection Molded)	2600	MPa	ISO 178
Flexural Stress ² (23°C, 4.00 mm, Injection Molded)	72.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Injection Molded)	14	kJ/m ²	ISO 180
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed, 4.00 mm	75.0	°C	
Vicat Softening Temperature	86.0	°C	ISO 306/B50
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

LG ABS EF378L

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.8 mm		V-2	
3.1 mm		V-2	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	70 to 80	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	180 to 200	°C
Middle Temperature	190 to 210	°C
Front Temperature	200 to 220	°C
Nozzle Temperature	200 to 230	°C
Processing (Melt) Temp	200 to 230	°C
Mold Temperature	40 to 60	°C
Back Pressure	29.4 to 58.8	MPa
Screw Speed	30 to 60	rpm

Injection Notes

Minimum Moisture Content: 0.01%

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min