

LG ABS EF378L

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Monday, March 7, 2022

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
Deflection Temperature Under Load			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 746B
RTI Imp	60.0	°C	UL 746B
RTI Str	60.0	°C	UL 746B

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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


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