

LG ABS EF378L

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

- Description
- Halogen-Free, Flame Retardant
- Application
- Office Appliances (parts of printer or copier)
- Electric Parts Requiring Flame Retardancy

General Information			
UL YellowCard	E67171-100137135		
Features	Flame Retardant		
	Good Flexibility		
	Halogen Free		
Uses	Electrical Parts		
	Printer Parts		
Processing Method	Injection Molding		
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 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 4.00 mm)	45.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 4.00 mm	> 5.0	%	
Break, 4.00 mm	15	%	
Flexural Modulus ¹ (4.00 mm)	2600	MPa	ISO 178
Flexural Stress ² (4.00 mm)	72.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	14	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed, 6.40 mm)	75.0	°C	ISO 75-2/A
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
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	
0.800 mm	V-2		
3.10 mm	V-2		
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.010	%	
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	40.0 to 60.0	°C	
Back Pressure	29.4 to 58.8	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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