

LG ABS HF380U

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

Description
High Flow, Good Weatherability
Application
Electric&Electronic Products, Miscellaneous Goods

General Information			
UL YellowCard	E67171-248362		
Features	Good Weather Resistance		
	High Flow		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	43	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	106		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	2150	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	44.1	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	40	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	2400	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 3.20 mm)	70.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	120	J/m	
-30°C, 6.40 mm	120	J/m	
23°C, 3.20 mm	260	J/m	
23°C, 6.40 mm	250	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	89.0	°C	
1.8 MPa, Unannealed, 6.40 mm	86.0	°C	
Vicat Softening Temperature	94.0	°C	ASTM D1525 ⁶
RTI Elec	60.0	°C	UL 746

RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 1		UL 746
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 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	210 to 240	°C	
Mold Temperature	40.0 to 70.0	°C	
Back Pressure	29.4 to 58.8	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		
6.	Rate A (50°C/h), Loading 2 (50 N)		

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