

LG ABS SG175H

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

Description
Super surface gloss, High melt flow index, UV Resistant
Application
Electric/electronic products

General Information			
UL YellowCard	E67171-248404		
Features	Highlight		
	Good UV resistance		
	High liquidity		
Uses	Electrical/Electronic Applications		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04 - 1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	32	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	43.1	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 10	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2350	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	71.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.20 mm	220	J/m	ASTM D256
23°C, 6.40 mm	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	87.0	°C	ASTM D648
Vicat Softening Temperature	95.0	°C	ASTM D1525 ⁵
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI	60.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94

1.5 mm	HB	UL 94
3.0 mm	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	70 - 80	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	180 - 200	°C
Middle Temperature	190 - 210	°C
Front Temperature	200 - 220	°C
Nozzle Temperature	200 - 230	°C
Processing (Melt) Temp	210 - 240	°C
Mold Temperature	40 - 70	°C
Back Pressure	0.490 - 1.47	MPa
Screw Speed	30 - 60	rpm

Injection instructions

Minimum Moisture Content: 0.01%

NOTE

1. 50 mm/min
2. 50 mm/min
3. 15 mm/min
4. 15 mm/min
5. 速率 A (50°C/h), 载荷2 (50N)

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