Lumax® HR5107

Acrylonitrile Butadiene Styrene + PBT

LG Chem Ltd.

Message:

Description
Heat Resistance
Application
E&E(CD ROM Tray)

General Information			
UL YellowCard	E67171-248438		
Features	High Heat Resistance		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.25	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.90	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Break, 3.20 mm)	59.8	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus [3] (3.20 mm)	3140	MPa	ASTM D790
Flexural Strength [4] (Yield, 3.20 mm)	92.2	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 6.40 mm)	59	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	107	°C	ASTM D648
Peak Melting Temperature	223	°C	ASTM D3418
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (1.00 mm)	21	kV/mm	ASTM D149
Arc Resistance	PLC 5		ASTM D495
Comparative Tracking Index (CTI) [5]	PLC 2		UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.50 mm	HB		

3.00 mm	HB	
Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	4.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	225 to 235	°C
Middle Temperature	230 to 245	°C
Front Temperature	245 to 255	°C
Nozzle Temperature	245 to 255	°C
Processing (Melt) Temp	245 to 255	°C
Mold Temperature	40.0 to 80.0	°C
NOTE		
1.	5.0 mm/min	
2.	5.0 mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	
5.	Solution A	

Recommended distributors for this material

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