

Lupoy® SG5009F

Polycarbonate + ABS

LG Chem Ltd.

Message:

Description

High Gloss, Scratch Resistance, Halogen Free Flame Retardent

Application

IT/OA(Notebook PC & Monitor housing)

General Information			
UL YellowCard	E67171-607697	E248280-100158656	E353371-101107285
Features	Flame Retardant		
	Halogen Free		
	High Gloss		
	Scratch Resistant		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	58.8	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 100	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2670	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	98.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	90.0	°C	ASTM D648
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 (1.60 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	

Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	230 to 270	°C
Middle Temperature	235 to 275	°C
Front Temperature	235 to 275	°C
Nozzle Temperature	235 to 272	°C
Processing (Melt) Temp	245 to 275	°C
Mold Temperature	60.0 to 80.0	°C
Back Pressure	0.981 to 1.96	MPa
Screw Speed	40 to 70	rpm

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 10 mm/min |
| 4. | 10 mm/min |

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