

Lupoy® SC2302

Polycarbonate

LG Chem Ltd.

Message:

Description

Good Toughness, Good Impact, Chemical Resistance

Application

Moible Phone Housing

General Information			
UL YellowCard	E67171-100027246	E248280-100041002	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Chemical Resistance		
	Good Toughness		
	High Impact Resistance		
Uses	Cell Phones		
	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	108	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	6.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	6860	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	177	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵ (0.45 MPa, Unannealed, 6.40 mm)	140	°C	ASTM D648
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	80.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94

0.750 mm	HB	
3.00 mm	HB	
Injection	Nominal Value	Unit
Drying Temperature	100 to 120	°C
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	< 0.020	%
Rear Temperature	280 to 295	°C
Middle Temperature	285 to 305	°C
Front Temperature	290 to 310	°C
Nozzle Temperature	290 to 305	°C
Processing (Melt) Temp	295 to 315	°C
Mold Temperature	100 to 140	°C
Back Pressure	0.981 to 3.92	MPa
Screw Speed	40 to 70	rpm
NOTE		
1.	5.0 mm/min	
2.	5.0 mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	
5.	18.6kg	

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