Lupoy® SC1004A

Polycarbonate

LG Chem Ltd.

Message:

Description
General Purpose, High Toughness, Chemical resistance, High Impact (at Low Temperature)
Application
Mobile Phone Housing

General Information			
UL YellowCard	E302314-530035	E67171-318084	E248280-533907
Features	General Purpose Good Chemical Resistance Low Temperature Impact Resistance Ultra High Toughness		
Uses	Cell Phones Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, 3.20 mm)	55.9	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm)	130	%	ASTM D638
Flexural Modulus [3] (3.20 mm)	2060	MPa	ASTM D790
Flexural Strength [4] (Yield, 3.20 mm)	88.3	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [5]			ASTM D256
-30°C	55	J/m	
23°C	70	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	130	°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 (0.700 mm)	HB	UL 94

Injection	Nominal Value	Unit
Drying Temperature	100 to 110	°C
Drying Time	3.0 to 5.0	hr
Minimum Moisture Content	0.020	%
Rear Temperature	275 to 290	°C
Middle Temperature	285 to 305	°C
Front Temperature	290 to 310	°C
Nozzle Temperature	285 to 305	°C
Processing (Melt) Temp	290 to 310	°C
Mold Temperature	80.0 to 110	°C
Back Pressure	0.981 to 3.92	MPa
Screw Speed	40 to 70	rpm

NOTE	
1.	50 mm/min
2.	50 mm/min
3.	10 mm/min
4.	10 mm/min
5.	3.2 mm Notch Depth

Recommended distributors for this material

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