

Lupoy® SR3108FC

Polycarbonate

LG Chem Ltd.

Message:

Description

Halogen Free Flame Retardance, Light Reflectance, White Color Only

Application

LCD Back Light Unit parts

General Information			
UL YellowCard	E67171-248619	E353371-101107290	
Features	Flame Retardant		
	Halogen Free		
	High Reflectivity		
Uses	LCD Applications		
Appearance	White		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.80	%	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)	100	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2350	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	88.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵ (0.45 MPa, Unannealed, 6.40 mm)	126	°C	ASTM D648
RTI Elec	110	°C	UL 746
RTI Imp	100	°C	UL 746
RTI Str	120	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.850 mm	V-1		
1.50 mm	V-0		

3.00 mm	V-0	
Injection	Nominal Value	Unit
Drying Temperature	100 to 120	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	< 0.020	%
Rear Temperature	250 to 280	°C
Middle Temperature	260 to 290	°C
Front Temperature	260 to 290	°C
Nozzle Temperature	260 to 280	°C
Processing (Melt) Temp	260 to 280	°C
Mold Temperature	60.0 to 90.0	°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.	18.6kg	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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