

**General Information**
**Product Description**

 Description  
 Halogen Free Flame Retardance, Light Reflectance, White Color Only

 Application  
 LCD Back Light Unit parts

**General**

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• Halogen Free	• High Reflectivity
Uses	• LCD Applications		
Appearance	• White		
Processing Method	• Injection Molding		

**ASTM & ISO Properties<sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.25	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.50 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	57.9	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	100	%	
Flexural Modulus <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	2450	MPa	ASTM D790
Flexural Strength <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	93.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	640	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	117		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	127	°C	
RTI Elec	110	°C	UL 746
RTI Imp	100	°C	UL 746
RTI Str	120	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.9 mm	V-1		
1.5 mm	V-0		
3.0 mm	V-0		

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# Lupoy® SR3108FM

## LG Chem Ltd. - Polycarbonate

### Processing Information

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 to 90	°C
Back Pressure	0.981 to 3.92	MPa
Screw Speed	40 to 70	rpm

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 50 mm/min

<sup>3</sup> 10 mm/min