

SD POLYCA™ LR8031V

Polycarbonate

Sumika Styron Polycarbonate Limited

Message:

Our light reflective products have high light reflectivity and good ignition resistant property, based on our excellent compounding technology. These grades are used for light reflective parts in LCD displays.

General Information			
UL YellowCard	E123529-221553		
Additive	Flame retardancy		
Features	High reflectivity		
	Flame retardant		
	Flame retardancy		
Uses	LCD application		
	Electrical housing		
	Sheet		
Part Marking Code	>PC FR(76)		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.50 - 0.70	%	ASTM D955
Transverse flow	0.50 - 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.18	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	60.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Fracture	40	%	ASTM D638
Fracture	30	%	ISO 527-2
Flexural Modulus			
--	2500	MPa	ASTM D790
--	2600	MPa	ISO 178
Flexural Strength	90.0	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	290	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
1.8 MPa, not annealed	130	°C	ASTM D648
1.8 MPa, not annealed	120	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.0 mm	V-0	UL 94	
1.5 mm	V-0	UL 94	
Optical	Nominal Value		Test Method
Refractive Index ¹	95.00	Internal method	
NOTE			
1.	Thickness: 1 mm		

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