

SD POLYCA™ LD2050-AAH20

Polycarbonate

Sumika Styron Polycarbonate Limited

Message:

SD POLYCA LD2050 series are light diffusion polycarbonate resins for LCD TV and LED lighting and lamp cover shade.

General Information			
UL YellowCard	E123529-100590580		
Uses	LCD application		
	LEDs		
Physical	Nominal Value	Unit	Test Method
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	6.00 - 22.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	60.0	MPa	ISO 527-2
Tensile Strain (Break)	100	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	20	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	126	°C	ISO 75-2/A
Optical	Nominal Value	Unit	Test Method
Transmittance			ASTM D1003
1000 µm	84.0	%	ASTM D1003
1600 µm	76.0	%	ASTM D1003
2000 µm	69.0	%	ASTM D1003
3000 µm	58.0	%	ASTM D1003
Haze			ASTM D1003
1000 µm	99	%	ASTM D1003
1600 µm	99	%	ASTM D1003
2000 µm	100	%	ASTM D1003
3000 µm	100	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Light Diffusion			Internal method
1.00 mm	22.0	°	Internal method
1.60 mm	37.0	°	Internal method
2.00 mm	45.0	°	Internal method

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Recommended distributors for this material

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