

SD POLYCA™ SI8001H

Polycarbonate

Sumika Styron Polycarbonate Limited

Message:

SD POLYCA™ 870 series, SI8001H and SI6001W are based on silicone type flame retardants instead of conventional bromine type and phosphonate type flame retardants. SD POLYCA 870 series, SI8001H and SI6001W are environmentally friendly polycarbonate resins and show excellent hydrolysis resistance, thermal stability, heat resistance and molding capability.

General Information			
UL YellowCard	E123529-100617133		
Additive	Flame retardancy		
Features	Good Heat Resistance		
	Environmental protection		
	Good formability		
	Hydrolysis resistance		
	Thermal stability, good		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Architectural application field		
Part Marking Code	>PC FR(76)		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	20.0	cm³/10min	ISO 1133
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)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress	60.0	MPa	ISO 527-2
Tensile Strain (Break)	80	%	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 (23°C)	20	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	126	°C	ISO 75-2/A

Linear thermal expansion coefficient			ASTM D696
Flow	7.0E-5	cm/cm/°C	ASTM D696
Lateral	7.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.75 mm	V-0		UL 94
3.0 mm	V-0		UL 94

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