

SD POLYCA™ 878-20

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	E123529-558625		
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		
Appearance	Opacity		
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	2250	MPa	ISO 527-2
Tensile Strength			
--	61.0	MPa	ASTM D638
--	60.0	MPa	ISO 527-2
Tensile Elongation (Break)	80	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	2200	MPa	ASTM D790
--	2100	MPa	ISO 178
Flexural Strength			

--	91.0	MPa	ASTM D790
--	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	390	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	129	°C	ASTM D648
1.8 MPa, not annealed	121	°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
1.5 mm	V-0	UL 94	
3.0 mm	V-0	UL 94	

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