

SD POLYCA™ 875G20

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			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
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-GF20 FR(76)		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm³	ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.30 - 0.50	%	ASTM D955
Transverse flow	0.40 - 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6300	MPa	ISO 527-2
Tensile Strength			
--	97.0	MPa	ASTM D638
--	110	MPa	ISO 527-2
Tensile Elongation (Break)	4.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	5700	MPa	ASTM D790
--	5400	MPa	ISO 178
Flexural Strength	130	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	15	kJ/m²	ISO 179

Charpy Unnotched Impact Strength	45	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	144	°C	ASTM D648
1.8 MPa, not annealed	143	°C	ISO 75-2/A
Linear thermal expansion coefficient			ASTM D696
Flow	3.0E-5	cm/cm/°C	ASTM D696
Lateral	6.0E-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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