SD POLYCA™ 875-20

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	E123529-221532		
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	2300	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			
--	2260	MPa	ASTM D790
--	2300	MPa	ISO 178
Flexural Strength			

--	86.0	MPa	ASTM D790
--	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	kJ/m²	ISO 179
Notched Izod Impact (23°C)	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	133	°C	ASTM D648
1.8 MPa, not annealed	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
1.0 mm	V-0		UL 94
1.5 mm	V-0		UL 94
	V-0		
2.5 mm	5VB		UL 94
	V-0		
3.0 mm	5VB		UL 94

Recommended distributors for this material

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