

SD POLYCA™ CR3420T

Polycarbonate + PBT

Sumika Styron Polycarbonate Limited

Message:

SD POLYCA CR series are PC/Polyester alloy grades. These products have improved chemical resistant property in addition to high impact property and heat resistant property of polycarbonate resin.

General Information			
Features	Impact resistance, high Good chemical resistance Heat resistance, high		
Uses	Automotive exterior parts		
Appearance	Translucent		
Part Marking Code	>PC+PBT		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	8.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.60 - 0.80	%	ASTM D955
Transverse flow	0.60 - 0.80	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Strength	65.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	130	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	2330	MPa	ASTM D790
--	2350	MPa	ISO 178
Flexural Strength			
--	94.0	MPa	ASTM D790
--	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	128	°C	ASTM D648

1.8 MPa, not annealed	118	°C	ASTM D648
1.8 MPa, not annealed	115	°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
Optical	Nominal Value	Unit	Test Method
Transmittance	83.0	%	ASTM D1003
Haze	6.0	%	ASTM D1003

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