

SD POLYCA™ CR3441-10G

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			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Features	Impact resistance, high		
	Good chemical resistance		
	Heat resistance, high		
Uses	Automotive exterior parts		
Appearance	Opacity		
Part Marking Code	>PC+PBT-GF10		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	10.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.30 - 0.50	%	ASTM D955
Transverse flow	0.30 - 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4000	MPa	ISO 527-2
Tensile Strength			
--	78.0	MPa	ASTM D638
--	80.0	MPa	ISO 527-2
Tensile Elongation			
Fracture	4.0	%	ASTM D638
Fracture	5.0	%	ISO 527-2
Flexural Modulus			
--	3930	MPa	ASTM D790
--	4000	MPa	ISO 178
Flexural Strength			
--	123	MPa	ASTM D790
--	127	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	125	°C	ASTM D648
1.8 MPa, not annealed	120	°C	ASTM D648
1.8 MPa, not annealed	115	°C	ISO 75-2/A
Linear thermal expansion coefficient			ASTM D696
Flow	4.0E-5	cm/cm/°C	ASTM D696
Lateral	7.0E-5	cm/cm/°C	ASTM D696

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