

SD POLYCA™ IM-401-28

Polycarbonate

Sumika Styron Polycarbonate Limited

Message:

SD POLYCA™ IM 400 series show high impact resistance at cold temperature. This series are suitable for housing of cell phone and other mobile equipment.

General Information			
Features	Impact resistance, high		
	Low temperature impact resistance		
Uses	Mobile phone		
	Shell		
Appearance	Opacity		
Part Marking Code	>PC		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	28.0	cm ³ /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
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	59.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Fracture	120	%	ASTM D638
Fracture	110	%	ISO 527-2
Flexural Modulus			
--	2130	MPa	ASTM D790
--	2240	MPa	ISO 178
Flexural Strength	88.0	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	50	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	132	°C	ASTM D648

1.8 MPa, not annealed	127	°C	ASTM D648
1.8 MPa, not annealed	124	°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

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