

SD POLYCA™ IM-401-18

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			
UL YellowCard	E123529-481299		
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)	18.0	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)	55	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

0.45 MPa, not annealed	133	°C	ASTM D648
1.8 MPa, not annealed	128	°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
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.4 mm	V-2		UL 94
3.0 mm	V-2		UL 94

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

