

SD POLYCA™ IM6120

Polycarbonate + ABS

Sumika Styron Polycarbonate Limited

Message:

SD POLYCA™ IM6000 series are PC/ABS alloy grades. These grades have excellent properties of both polycarbonate and ABS resins such as high impact strength, heat stability and good processing latitude in injection molding. We prepare variety of products to cover your applications.

General Information			
UL YellowCard	E123529-221491		
Features	Impact resistance, high		
	Workability, good		
	Thermal stability, good		
Uses	Electrical housing		
Appearance	Opacity		
Processing Method	Injection molding		
Part Marking Code	>PC+ABS		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	9.00	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)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Strength			
--	54.0	MPa	ASTM D638
--	60.0	MPa	ISO 527-2
Tensile Elongation (Break)	110	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	2250	MPa	ASTM D790
--	2350	MPa	ISO 178
Flexural Strength			
--	84.0	MPa	ASTM D790
--	80.0	MPa	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)	690	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	120	°C	ASTM D648
1.8 MPa, not annealed	117	°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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