

Novalloy-S S6700

Polycarbonate + ABS

Daicel Polymer Ltd.

Message:

Novalloy-S S6700 is a Polycarbonate + ABS (PC+ABS) material. It is available in Asia Pacific. Primary attribute of Novalloy-S S6700: Flame Rated.

General Information			
UL YellowCard	E47773-239770		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
220°C/10.0 kg	31	g/10 min	
240°C/5.0 kg	21	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	61.0	MPa	ISO 527-2
Flexural Modulus	2800	MPa	ISO 178
Flexural Stress	96.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C, 6.40 mm)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 12.7 mm	95.0	°C	ASTM D648
1.8 MPa, Unannealed	86.0	°C	ISO 75-2/A
Vicat Softening Temperature	101	°C	ISO 306/B50
Ball Pressure Test	90	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.50 mm)	21	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	118	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 6		ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
2.00 mm	5VB		
2.50 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	

Rear Temperature	190 to 210	°C
Middle Temperature	210 to 230	°C
Front Temperature	230 to 250	°C
Nozzle Temperature	220 to 250	°C
Mold Temperature	40.0 to 60.0	°C
Back Pressure	5.00 to 15.0	MPa
Screw Speed	40 to 60	rpm

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