

Novalloy-B B1700, B1700F

Acrylonitrile Butadiene Styrene + PBT

Daicel Polymer Ltd.

Message:

Novalloy-B B1700, B1700F is an Acrylonitrile Butadiene Styrene + PBT (ABS+PBT) material. It is available in Asia Pacific. Primary attribute of Novalloy-B B1700, B1700F: Flame Rated.

General Information			
UL YellowCard	E47773-239616		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.2 to 1.4	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	47.0	MPa	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	74.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C, 6.40 mm)	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	150	°C	ASTM D648
0.45 MPa, Unannealed	150	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	85.0	°C	ASTM D648
1.8 MPa, Unannealed	75.0	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.50 mm)	28	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	128	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 5		ASTM D495
Comparative Tracking Index (CTI) (3.00 mm)	PLC 0		UL 746
Comparative Tracking Index (3.00 mm)	600	V	IEC 60112
High Amp Arc Ignition (HAI) (1.50 mm)	150		UL 746
High Amp Arc Ignition (HAI) (1.50 mm)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	19.0	mm/min	UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	PLC 1		UL 746
Hot-wire Ignition (HWI) (1.50 mm)	10	sec	UL 746

Hot-wire Ignition (HWI) (1.50 mm)	PLC 4		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 120	°C	
Drying Time	3.0 to 5.0	hr	
Rear Temperature	190 to 230	°C	
Middle Temperature	220 to 240	°C	
Front Temperature	240 to 250	°C	
Nozzle Temperature	230 to 250	°C	
Mold Temperature	60.0 to 80.0	°C	
Back Pressure	5.00 to 20.0	MPa	
Screw Speed	50 to 90	rpm	

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