

Novalloy-B B5746 (Type J)

Acrylonitrile Butadiene Styrene + PBT

Daicel Polymer Ltd.

Message:

Novalloy-B B5746 (Type J) is an Acrylonitrile Butadiene Styrene + PBT (ABS+PBT) material filled with 30% glass fiber. It is available in Asia Pacific. Primary attribute of Novalloy-B B5746 (Type J): Flame Rated.

General Information			
UL YellowCard	E47773-239707		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	120	MPa	ISO 527-2
Flexural Modulus	9700	MPa	ISO 178
Flexural Stress	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C, 6.40 mm)	70	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	220	°C	ASTM D648
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	200	°C	ASTM D648
1.8 MPa, Unannealed	190	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	
Transverse	1.0E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.50 mm)	26	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	72.0	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 6		ASTM D495
Comparative Tracking Index (CTI) (3.00 mm)	PLC 3		UL 746
Comparative Tracking Index (3.00 mm)	220	V	IEC 60112
High Amp Arc Ignition (HAI) (1.50 mm)	33.0		UL 746
High Amp Arc Ignition (HAI) (1.50 mm)	PLC 2		UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	150	mm/min	UL 746

High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	PLC 4		UL 746
Hot-wire Ignition (HWI) (1.50 mm)	25	sec	UL 746
Hot-wire Ignition (HWI) (1.50 mm)	PLC 3		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
2.00 mm	5VA		
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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