Novalloy-B B3708 (Type K)

Acrylonitrile Butadiene Styrene + PBT

Daicel Polymer Ltd.

Message:

Novalloy-B B3708 (Type K) is an Acrylonitrile Butadiene Styrene + PBT (ABS+PBT) material filled with 40% glass fiber. It is available in Asia Pacific. Primary attribute of Novalloy-B B3708 (Type K): Flame Rated.

General Information			
UL YellowCard	E47773-239641		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.56	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	100	MPa	ISO 527-2
Flexural Modulus	11500	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	7.0	kJ/m²	ISO 179/1eA
Notched Izod Impact (23°C, 6.40 mm)	60	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	210	°C	ASTM D648
0.45 MPa, Unannealed	210	°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	3.0E-5	cm/cm/°C	
Transverse	8.0E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength (1.50 mm)	24	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	124	sec	ASTM D495
Arc Resistance (3.00 mm)	PLC 5		ASTM D495
Comparative Tracking Index (CTI) (3.00 mm)	PLC 1		UL 746
Comparative Tracking Index (3.00 mm)	430	V	IEC 60112
High Amp Arc Ignition (HAI) (1.50 mm)	19.0		UL 746
High Amp Arc Ignition (HAI) (1.50 mm)	PLC 3		UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	15.0	mm/min	UL 746

High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	PLC 1		UL 746
Hot-wire Ignition (HWI) (1.50 mm)	13	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	

Recommended distributors for this material

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