

Novalloy-B B5546 (Type D)

Acrylonitrile Butadiene Styrene + PBT

Daicel Polymer Ltd.

Message:

Novalloy-B B5546 (Type D) is an Acrylonitrile Butadiene Styrene + PBT (ABS+PBT) material filled with 30% glass fiber. It is available in Asia Pacific. Important attributes of Novalloy-B B5546 (Type D) are:
Flame Rated
Flame Retardant

General Information			
UL YellowCard	E47773-239675		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
UL File Number	E47773		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	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)	110	MPa	ISO 527-2
Flexural Modulus	9500	MPa	ISO 178
Flexural Stress	170	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)	80	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	150	°C	ASTM D648
1.8 MPa, Unannealed	145	°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 (1.5)	27	kV/mm	ASTM D149
Arc Resistance (3.00 mm)	PLC 6		ASTM D495
Comparative Tracking Index (CTI) (3.00 mm)	PLC 3		UL 746
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)	208	mm/min	UL 746
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	PLC 4		UL 746
Hot-wire Ignition (HWI) (1.50 mm)	31	sec	UL 746
Hot-wire Ignition (HWI) (1.50 mm)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94

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