Novalloy-B B5706

Acrylonitrile Butadiene Styrene + PBT

PlastxWorld Inc.

Message:

Novalloy-B B5706 is an Acrylonitrile Butadiene Styrene + PBT (ABS+PBT) product filled with 30% glass fiber. It can be processed by coating or injection molding and is available in North America. Applications of Novalloy-B B5706 include electrical/electronic applications, business/office goods, coating applications and housings.
Characteristics include:
Flame Rated
Chemical Resistant
Wear Resistant
Flame Retardant
Good Adhesion

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Features	Flame Retardant Good Abrasion Resistance Good Adhesion Good Chemical Resistance Good Dimensional Stability Good Flow Good Moldability Good Toughness Good Wear Resistance High Heat Resistance High Rigidity High Strength Oil Resistant Warp Resistant
Uses	Business Equipment Coating Applications Computer Components Connectors Electrical Parts Housings
Appearance	Black Colors Available Natural Color
Forms	Pellets

Processing Method	Coating Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	123	MPa	ASTM D638
Tensile Elongation (Break)	2.2	%	ASTM D638
Flexural Modulus	9510	MPa	ASTM D790
Flexural Strength (Yield)	176	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	210	°C	
1.8 MPa, Unannealed	200	°C	
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (100 Hz)	3.90		ASTM D150
Dissipation Factor (100 Hz)	3.0E-3		ASTM D150
Arc Resistance (3.18 mm)	71.0	sec	ASTM D495
Comparative Tracking Index (CTI) (3.18 mm)	250	V	UL 746
High Amp Arc Ignition (HAI)			UL 746
1.59 mm	101		
3.18 mm	69.0		
High Voltage Arc Tracking Rate (HVTR) (3.18 mm)	40.6	mm/min	UL 746
Hot-wire Ignition (HWI)			UL 746
1.59 mm	27	sec	
3.18 mm	53	sec	
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2 to 121	°C	
Drying Time	3.0 to 5.0	hr	
Processing (Melt) Temp	241 to 260	°C	
Mold Temperature	60.0 to 80.0	°C	
Back Pressure	0.483 to 1.45	MPa	

Screw Speed	50 to 100	rpm

Recommended distributors for this material

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