

Novalloy-B B6506

Acrylonitrile Butadiene Styrene + PBT

PlastxWorld Inc.

Message:

Novalloy-B B6506 is an Acrylonitrile Butadiene Styrene + PBT (ABS+PBT) product filled with 30% glass\mineral. It can be processed by coating or injection molding and is available in North America. Applications of Novalloy-B B6506 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\Mineral,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	1.51	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	93.1	MPa	ASTM D638
Tensile Elongation (Break)	2.1	%	ASTM D638
Flexural Modulus	9100	MPa	ASTM D790
Flexural Strength (Yield)	140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	200	°C	
1.8 MPa, Unannealed	145	°C	
CLTE - Flow	5.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	21	kV/mm	ASTM D149
Dielectric Constant (100 Hz)	3.80		ASTM D150
Dissipation Factor (100 Hz)	5.0E-3		ASTM D150
Arc Resistance (3.18 mm)	76.0	sec	ASTM D495
Comparative Tracking Index (CTI) (3.18 mm)	260	V	UL 746
High Amp Arc Ignition (HAI)			UL 746
1.59 mm	26.0		
3.18 mm	17.0		
High Voltage Arc Tracking Rate (HVTR) (3.18 mm)	165	mm/min	UL 746
Hot-wire Ignition (HWI)			UL 746
1.59 mm	34	sec	
3.18 mm	48	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

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