

# Novalloy-B B5503

Acrylonitrile Butadiene Styrene + PBT

PlastxWorld Inc.

## Message:

Novalloy-B B5503 is an Acrylonitrile Butadiene Styrene + PBT (ABS+PBT) product filled with 15% glass fiber. It can be processed by coating or injection molding and is available in North America. Applications of Novalloy-B B5503 include electrical/electronic applications, business/office goods, coating applications and housings.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Flame Retardant
- Wear Resistant
- Good Adhesion

General Information	
Filler / Reinforcement	Glass Fiber,15% Filler by Weight
Additive	Flame Retardant
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	1.38	g/cm <sup>3</sup>	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 (Break, 23°C)	88.3	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.7	%	ASTM D638
Flexural Modulus (23°C)	5390	MPa	ASTM D790
Flexural Strength (23°C)	128	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	190	°C	
1.8 MPa, Unannealed, 6.35 mm	110	°C	
CLTE - Flow	6.6E-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)	3.50		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)	375	V	UL 746
High Amp Arc Ignition (HAI) (1.59 mm)	39.0		UL 746
High Voltage Arc Tracking Rate (HVTR) (1.59 mm)	183	mm/min	UL 746
Hot-wire Ignition (HWI) (1.59 mm)	43	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ALL)	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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#### Recommended distributors for this material

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