

VENYL SB500

Polyamide 6

AD majoris

Message:

VENYL SB500 is a natural, high mineral filled polyamide 6 intended for injection moulding.

APPLICATIONS

VENYL SB500 has been developed for applications where high density, good surface finish are necessary.

High density products, such as: Sound absorption parts, electronic housings, cosmetics mouldings, appliances

VENYL SB500 is available in both natural (VENYL SB500) and black (VENYL SB500-8229) but other colours can be provided on request.

General Information			
Filler / Reinforcement	Mineral		
Features	Good Surface Finish		
	High Density		
	Recyclable Material		
Uses	Acoustic Barrier		
	Appliances		
	Cosmetics		
	Electrical Housing		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.80	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	47.0	MPa	ISO 527-2
Tensile Strain (Break)	1.0	%	ISO 527-2
Flexural Modulus	5500	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	DIN 53482
Volume Resistivity	1.0E+15	ohms · cm	DIN 53482

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12

Injection	Nominal Value	Unit
Rear Temperature	245 to 265	°C
Middle Temperature	250 to 270	°C
Front Temperature	255 to 275	°C
Nozzle Temperature	255 to 275	°C
Mold Temperature	85.0 to 110	°C
Injection Pressure	85.0 to 110	MPa
Injection Rate	Fast	
Holding Pressure	50.0 to 70.0	MPa
Screw L/D Ratio	15.0:1.0 to 20.0:1.0	

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