

LNP VALOX® SMV5846 PBT + PET Alloy, 20% Carbon Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polyethylene Terephthalate (PET)

Material Notes:

ESD Applications Features: Good Chemical Resistance, High Flow, Flame Retardant Forms: Pellets Processing Method: Injection

Molding Information provided by LNP, a GE Plastics Company. This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-VALOX-SMV5846-PBT-PET-Alloy-20-Carbon-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	128 MPa	18600 psi	Type I, 5 mm/min; ASTM D638
Flexural Strength	198 MPa	28700 psi	50.8 mm Span, 1 mm/min; ASTM D790
Flexural Modulus	12.2 GPa	1770 ksi	(50.8 mm Span) 1mm/min; ASTM D790
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	203 °C @Thickness 6.35 mm	397 °F @Thickness 0.250 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.0 ohm-cm	7.0 ohm-cm	ASTM D257
Surface Resistance	3000 ohm	3000 ohm	ASTM D257
Static Decay	<= 0.010 sec	<= 0.010 sec	5000V to <50V; FTMS101B

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	238 - 254 °C	460 - 489 °F	
Middle Barrel Temperature	243 - 260 °C	469 - 500 °F	
Front Barrel Temperature	249 - 266 °C	480 - 511 °F	
Nozzle Temperature	243 - 260 °C	469 - 500 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	65.6 - 87.8 °C	150 - 190 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	3 - 12 hour	3 - 12 hour	
Moisture Content	0.020 %	0.020 %	Suggested
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	
Clamp Pressure	41.0 - 83.0 MPa	5950 - 12000 psi	
Shot Size	40 - 80 %	40 - 80 %	Suggested
Vent Depth	0.00250 - 0.00380 cm	0.000984 - 0.00150 in	
Screw Speed	50 - 80 rpm	50 - 80 rpm	

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