

LNP VALOX® SMV5845 PBT + PET Alloy, 16% Carbon Fiber Reinforcement (discontinued **)

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

Material Notes:

ESD Applications. Will be VC1600.Features: Good Chemical Resistance, High Flow, Flame RetardantForms: PelletsProcessing Method: Injection MoldingInformation 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-SMV5845-PBT-PET-Alloy-16-Carbon-Fiber-Reinforcement-nbspdiscontinued-.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	123 MPa	17800 psi	Type I, 5 mm/min; ASTM D638
Flexural Strength	188 MPa	27300 psi	102 mm Span, 3 mm/min; ASTM D790
Flexural Modulus	10.6 GPa	1540 ksi	(102 mm Span) 3mm/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)	202 °C @Thickness 6.35 mm	396 °F @Thickness 0.250 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	35 ohm-cm	35 ohm-cm	ASTM D257
Surface Resistance	30000 ohm	30000 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	
Melt Temperature	249 - 266 °C	480 - 511 °F	
Mold Temperature	65.6 - 87.8 °C	150 - 190 °F	

<small>Resin Temperature</small> Processing Properties	121 °C Metric	250 °F English	Comments
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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