

A. Schulman VOLOY™ 461 Glass Reinforced, Flame Retardant PBT Alloy

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

Material Notes:

Information provided by A. Schulman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_A-Schulman-VOLOY-461-Glass-Reinforced-Flame-Retardant-PBT-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.63 g/cc	1.63 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 cm/cm @Thickness 3.175 mm	0.0020 in/in @Thickness 0.1250 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17200 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
Flexural Strength	183 MPa	26500 psi	ASTM D790
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.73 J/cm	12.6 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	122 °C	252 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 260 °C	482 - 500 °F	
Mold Temperature	30.0 - 65.6 °C	86.0 - 150 °F	
Drying Temperature	130 °C	266 °F	
Dry Time	2 - 4 hour	2 - 4 hour	Predrying

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