

A. Schulman ComAlloy Voloy® 411 Mineral Reinforced, PBT Alloy, Flame Retardant, UL

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

Material Notes:

Data provided by the manufacturer, ComAlloy International Company.25% Mineral Reinforced.The ComAlloy product line has been integrated into the A Schulman product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_A-Schulman-ComAlloy-Voloy-411-Mineral-Reinforced-PBT-Alloy-Flame-Retardant-UL.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Ultimate	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	5.4 %	5.4 %	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	4.00 GPa	580 ksi	ASTM D790
Izod Impact, Unnotched	3.42 J/cm	6.41 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	210 - 225 °C	410 - 437 °F	
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	91.0 °C	196 °F	ASTM D648

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	235 - 249 °C	455 - 480 °F	

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