

A. Schulman ComAlloy Comtuf® 413 Glass Reinforced, Polycarbonate/Polyester Alloy, UL

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend, Glass Reinforced , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 20% Glass Reinforced. Superior toughness and impact resistance characterize Comtuf® materials. 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-Comtuf-413-Glass-Reinforced-PolycarbonatePolyester-Alloy-UL.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength, Ultimate	85.0 MPa	12300 psi	ASTM D638
Elongation at Break	8.5 %	8.5 %	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	5.70 GPa	827 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.66 J/cm	10.6 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	141 °C	286 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	ASTM D648
Glass Transition Temp, Tg	145 - 150 °C	293 - 302 °F	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	254 - 271 °C	489 - 520 °F	

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