

A. Schulman ComAlloy Comtuf® 520 Polycarbonate/Styrenic Alloy

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Styrenic Alloy , Polystyrene (PS)

Material Notes:

Data provided by the manufacturer, ComAlloy International Company. 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-520-PolycarbonateStyrenic-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Ultimate	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Flexural Strength	97.0 MPa	14100 psi	ASTM D790
Flexural Modulus	2.80 GPa	406 ksi	ASTM D790
Izod Impact, Notched	5.87 J/cm	11.0 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	129 °C	264 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648
Glass Transition Temp, Tg	145 - 150 °C	293 - 302 °F	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	246 - 277 °C	475 - 531 °F	

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