

A. Schulman ComAlloy® E-12421 Reinforced High Flow Polyamide

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Information provided by A. Schulman. 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-E-12421-Reinforced-High-Flow-Polyamide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Thickness 3.175 mm	@Thickness 0.1250 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	93.1 MPa	13500 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Strength	153 MPa	22200 psi	ASTM D790
Flexural Modulus	4.87 GPa	706 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.600 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.74 J/cm	7.00 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	223 °C	433 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Drying Temperature	79.4 °C	175 °F	
Dry Time	2 - 4 hour	2 - 4 hour	Predrying

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