

Ovation Polymers UTTAP SF 50030GF Polyethersulfone, 30% Glass Reinforced

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Glass reinforced (30 %) Polyether Sulfone, excellent chemical and electrical resistance, high stiffness, modulus and HDT. *All properties are measured after 48 hours of conditioning at 23°C and 50% relative humidity. All samples are prepared according to ASTM standards.

Variations within normal tolerances are possible for various types of colors and functional properties like UV resistance. Information provided by Ovation Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ovation-Polymers-UTTAP-SF-50030GF-Polyethersulfone-30-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ASTM D792
Water Absorption	0.50 %	0.50 %	24 hours; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	169 MPa	24500 psi	50 mm/min; ASTM D638
Elongation at Break	3.5 %	3.5 %	50 mm/min; ASTM D638
Tensile Modulus	6.60 GPa	957 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	221 MPa	32100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	11.3 GPa	1640 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 216 °C @Thickness 3.20 mm	>= 421 °F @Thickness 0.126 in	unannealed; ASTM D648
Glass Transition Temp, Tg	225 °C	437 °F	D3482

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