

Ensinger Tecamid® GF30 Extruded Nylon 6/6 30% glass-fiber-reinforced (PA66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Tecamid® 6/6 GF30 is a 30% glass-fiber reinforced nylon 6/6 material whose important properties include high tensile and flexural strength, stiffness, excellent heat deflection temperature, and superior abrasion and wear resistance. While all Tecamid® materials have high mechanical strength and superior resistance to wear and organic chemicals, Tecamid® 6/6 GF30 has more than double the strength and stiffness of unreinforced nylons and a heat deflection temperature which approaches its melting point. Superior organic chemical resistance High heat deflection temperature Excellent wear resistance High strength and stiffness Very good fatigue endurance Superior creep resistance Tecamid® 6/6 GF30 has an excellent balance of properties which make it an ideal material for metal replacement in applications such as automotive parts, industrial valves, railway tie insulators, and other industry uses whose design requirements include high strength, toughness, and weight reduction. Information provided by Ensinger Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecamid-GF30-Extruded-Nylon-66-30-glass-fiber-reinforced-PA66.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Water Absorption	0.70 %	0.70 %	at 24 hours; ASTM D570
Water Absorption at Saturation	5.4 %	5.4 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength, Yield	82.7 MPa	12000 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	ASTM D638
Flexural Strength	128 MPa	18500 psi	ASTM D790
Flexural Modulus	3.79 GPa	550 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	21.6 µm/m-°C	12.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	255 °C	491 °F	ASTM D2133

Maximum Service Temperature, Air Thermal Properties	110 °C Metric	230 °F English	Long Term: ASTM UL746B Comments
	241 °C	465 °F	Intermittent
Deflection Temperature at 0.46 MPa (66 psi)	254 °C	490 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ASTM D648

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