

Ensinger ENSILON® 6/6 GF30 Extruded Nylon 6/6, 30% glass-fiber-reinforced (PA66) (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Extruded

Material Notes:

ENSILON 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, and superior abrasion and wear resistance. While all ENSILON materials have high mechanical strength and superior resistance to wear and organic chemicals, ENSILON 6/6 GF30 has more than double the strength and stiffness of unreinforced nylons and a heat deflection temperature which approaches its melting point. Uses: ENSILON 6/6 GF30 has a 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 Information supplied by Ensinger, Inc. Ensilon grades have been replaced by Tecamid

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Water Absorption	0.70 %	0.70 %	24 hrs.; ASTM D570
Water Absorption at Saturation	5.4 % @Temperature 23.0 °C	5.4 % @Temperature 73.4 °F	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	101	101	ASTM D785
Tensile Strength at Break	137.9 MPa	20000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	268.9 MPa	39000 psi	ASTM D790
Flexural Modulus	8.30 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	21.6 µm/m-°C @Temperature -20.0 - 200 °C	12.0 µin/in-°F @Temperature -4.00 - 392 °F	ASTM D696
Maximum Service Temperature, Air	110 °C	230 °F	Long Term
	241 °C	466 °F	Short Term

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	254 °C	489 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.5 @Frequency 60 Hz	3.5 @Frequency 60 Hz	50% RH; ASTM D150
Dielectric Strength	20.9 kV/mm	531 kV/in	ASTM D149

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