

Ensinger ENSILON® 6/6 Extruded Nylon 6/6 (PA66) (discontinued **)

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

Material Notes:

ENSILON materials have high mechanical strength and superior resistance to wear and organic chemicals. Ensilon grades have been replaced by Tecamid. Information supplied by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-ENSILON-66-Extruded-Nylon-66-PA66-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	1.2 %	1.2 %	24 hrs.; ASTM D570
Water Absorption at Saturation	8.5 % @Temperature 23.0 °C	8.5 % @Temperature 73.4 °F	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	79	79	ASTM D785
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	85.5 MPa	12400 psi	ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Flexural Yield Strength	117.2 MPa	17000 psi	ASTM D790
Flexural Modulus	2.80 GPa	406 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	81.0 µm/m-°C @Temperature -20.0 - 200 °C	45.0 µin/in-°F @Temperature -4.00 - 392 °F	ASTM D696
	90.0 µm/m-°C @Temperature 93.3 - 238 °C	50.0 µin/in-°F @Temperature 200 - 460 °F	ASTM D696
Maximum Service Temperature, Air	99.0 °C	210 °F	Long Term
	179 °C	354 °F	Short Term
Deflection Temperature at 0.46 MPa (66 psi)	235 °C	455 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	4.0 @Frequency 60 Hz	4.0 @Frequency 60 Hz	50% RH; ASTM D150
Dielectric Strength	11.8 - 15.7 kV/mm	300 - 399 kV/in	ASTM D149

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