Ensinger HYDLAR® Z Nylon, Pultruded Aramid Fiber Reinforced (PA)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Aramid Fiber Filled

Material Notes:

HYDLAR® possesses a combination of physical properties that cannot be found in any other commercially available engineered plastic. Design engineers have created a family of superior wear and abrasion resistant thermoplastics using aramid fiber reinforcement.High strength rods and platesExtremely Wear ResistantIncreased surface temperature capabilityHighly resistant to abrasionNo galling of mating wear surfacesGood dimensional stabilityOutstanding machinabilityInformation Provided by Ensinger Industries, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Ensinger-HYDLAR-Z-Nylon-Pultruded-Aramid-Fiber-Reinforced-PA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Water Absorption	0.80 % @Time 86400 sec	0.80 % @Time 24.0 hour	ASTM D570
Water Absorption at Saturation	6.3 % @Temperature 22.8 °C	6.3 % @Temperature 73.0 °F	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	110 MPa	16000 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	ASTM D638
Flexural Strength	159 MPa	23000 psi	ASTM D790
Flexural Modulus	0.621 GPa	90.0 ksi	ASTM D790
Compressive Strength	133 MPa	19300 psi	ASTM D695
Izod Impact, Notched	1.44 J/cm	2.70 ft-lb/in	ASTM D256
K Factor (Wear Factor)	79 - 128	79 - 128	ASTM Thrust Washer Test: PV=2,500; P=250 psi; V=10 fpm; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	28.8 µm/m-°C	16.0 µin/in-°F	ASTM D696
Maximum Service Temperature, Air	149 °C	300 °F	continuous
Deflection Temperature at 1.8 MPa (264 psi)	243 °C	470 °F	ASTM D648

Descriptive Properties	Value	Comments
Base Material	Aramid	

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