

Ensinger Hydex™ 301 Rigid Polyurethane (PU)

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Hydex™ 301 is clear totally rigid polyurethane. It combines excellent clarity when polished with a broad range of chemical resistance and outstanding practical toughness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Hydex-301-Rigid-Polyurethane-PU.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.19 % @Time 86400 sec	0.19 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.1 MPa	9000 psi	ASTM D638
Tensile Strength, Yield	68.9 MPa	10000 psi	ASTM D638
Elongation at Break	140 %	140 %	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Tensile Modulus	2.14 GPa	310 ksi	ASTM D638
Flexural Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	1.28 J/cm	2.40 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.21	0.21	SS counter surface
Coefficient of Friction, Static	0.22	0.22	SS counter surface

Thermal Properties	Metric	English	Comments
CTE, linear	61.2 µm/m-°C	34.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	104 °C	220 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.7 °C	170 °F	ASTM D648
Vicat Softening Point	109 °C	228 °F	ASTM D1525

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