

HYDEX® 301

Polyurethane

Ensinger Inc.

Message:

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

General Information			
Features	Good Chemical Resistance		
	Good Toughness		
	High Clarity		
	High Rigidity		
Appearance	Clear/Transparent		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.19	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2140	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	68.9	MPa	
Break	62.1	MPa	
Tensile Elongation			ASTM D638
Yield	7.0	%	
Break	140	%	
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Coefficient of Friction			
vs. Itself - Dynamic	0.21		
vs. Itself - Static	0.22		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	104	°C	
1.8 MPa, Unannealed	76.7	°C	
Vicat Softening Temperature	109	°C	ASTM D1525
CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696

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Recommended distributors for this material

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