

HYDEX® 202

Polyurethane

Ensinger Inc.

Message:

Hydex® 202 is a totally rigid polyurethane resin that exhibits a broad range of chemical resistance, as well as superior impact and excellent mechanical properties. It can be used for any mechanical application that requires a combination of toughness, dimensional stability and chemical resistance. It has an ability to withstand chemical attack in a PH range from 2 to 14.

General Information			
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Toughness		
	High Impact Resistance		
	High Rigidity		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.21	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	62.1	MPa	
Break	55.2	MPa	
Tensile Elongation			ASTM D638
Yield	9.0	%	
Break	80	%	
Flexural Modulus	1930	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Coefficient of Friction			
vs. Itself - Dynamic	0.22		
vs. Itself - Static	0.26		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	530	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	143	°C	
1.8 MPa, Unannealed	138	°C	
Vicat Softening Temperature	144	°C	ASTM D1525
CLTE - Flow	6.7E-5	cm/cm/°C	ASTM D696

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