

## Ensinger TECAST™ Cast Nylon (PA)

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

TECAST™ Cast Nylon reduces downtime in heavy equipment applications. It is a low cost alternative for many non-ferrous machined parts. It has self-lubricating qualities which provide for excellent wear resistance. Because of its density and resiliency, TECAST™ has the ability to absorb high impact without permanent damage. Parts machined from TECAST™ Cast Nylon are lighter in weight than metal components that they replace. Self lubricating properties result in long lasting bearing surfaces. Cost saving alternative to non-ferrous machined parts. Machines and fabricates easily. Resistant to chemical damage. High impact strength withstands shock-loading. Superior creep resistance. Weight and noise reduction. TECAST™ Cast Nylon has a unique combination of strength, wear and corrosion resistance, machinability and lubricity that make it ideal for bearings, gears, rollers, wear plates, pulleys and conveyor wheels where wear resistance is required. Information Provided by Ensinger Industries, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ensinger-TECAST-Cast-Nylon-PA.php](http://www.lookpolymers.com/polymer_Ensinger-TECAST-Cast-Nylon-PA.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 - 1.15 g/cc	1.14 - 1.15 g/cc	ASTM D792
Water Absorption at Saturation	1.2 % @Temperature 22.8 °C, Time 86400 sec	1.2 % @Temperature 73.0 °F, Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110 - 115	110 - 115	ASTM D785
Tensile Strength, Yield	64.1 - 73.1 MPa @Temperature 22.8 °C	9300 - 10600 psi @Temperature 73.0 °F	ASTM D638
Tensile Modulus	0.00255 - 0.00293 GPa	0.370 - 0.425 ksi	ASTM D638
Compressive Strength	79.3 - 89.6 MPa	11500 - 13000 psi	at 1% Deformation; ASTM D695
Shear Strength	44.8 - 51.7 MPa @Temperature 22.8 °C	6500 - 7500 psi @Temperature 73.0 °F	
Izod Impact, Notched	0.427 - 0.534 J/cm @Temperature 22.8 °C	0.800 - 1.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D2133

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