

Ensinger Tecast Vekton™ 6PALM Premium Bearing Grade cast nylon (PA6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Tecast 6PALM contains both solid and liquid lubricants dispersed throughout the nylon to provide consistent wear rates and coefficients of friction. Information provided by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecast-Vekton-6PALM-Premium-Bearing-Grade-cast-nylon-PA6.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Ultimate	58.6 MPa	8500 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Strength	88.3 MPa	12800 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	0.934 J/cm	1.75 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.14	0.14	
Coefficient of Friction, Static	0.16	0.16	ASTM D3702
K (wear) Factor	98.7 x 10 ⁻⁸ mm ³ /N-M	49.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	ASTM D3702
Limiting Pressure Velocity	0.560 - 0.596 MPa-m/sec	16000 - 17000 psi-ft/min	

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 - 90.0 µm/m-°C	40.0 - 50.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	93.3 °C	200 °F	Continuous
	166 °C	330 °F	Intermittent

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