



**TECAST™ 6PALM**

## TECAST™ 6PALM

(Premium Bearing Grade of Cast Nylon)

TECAST™ 6PALM is a premium grade of cast nylon containing both solid and liquid lubricants. These lubricants are dispersed throughout the nylon material

to provide consistent wear rates and coefficients of friction. TECAST™ 6PALM contains MOS<sub>2</sub> and oil to "bridge the gap" between oil-filled and

MOS<sub>2</sub> cast nylons. It offers the better wear properties of oil-filled nylons while maintaining more of the mechanical characteristics of MOS<sub>2</sub>-filled cast nylons.

- Superior lubrication qualities resulting in long lasting bearing surfaces
- Fatigue and corrosion resistant
- Excellent where less weight is desired
- Can replace metal in many applications
- Low maintenance costs
- Production tooling can be developed easily
- Perfect for heavy load linear sliding applications such as crane wear pads

*TECAST™ 6PALM has a unique combination of strength, wear and corrosion resistance, machinability and lubricity that make it ideal for bearings, thrust washers, bushings, wear pads, sheaves and other parts where lubrication and light weight wear resistance is required. It is commonly used in heavy construction equipment, material handling systems, steel and paper mill equipment and other industrial machinery.*

Dallas, Texas (Corporate Offices)  
Houston, Texas  
Brandon, Mississippi

phone 800-782-1836 / 214-239-3870  
phone 800-282-4388 / 713-979-0660  
phone 800-457-8623 / 601-825-7919

fax 214-239-3871  
fax 713-979-0664  
fax 601-825-7109



## TYPICAL PROPERTY VALUES

	PROPERTIES	ASTM Test Method	Units	TECAST™ 6PALM
<b>MECHANICAL</b>	Wear Factor Against Steel, 40psi, 50 fpm	D3702	in <sup>3</sup> /hrx1/PV	4.9 x 10 <sup>9</sup>
	Limiting PV	na	psi-ft/min	16,000-17,000
	Tensile Strength, Ultimate, 73°F	D638	psi	8,500
	Elongation, Ultimate, 73°F	D638	%	40
	Flexural Strength, 73°F	D790	psi	12,800
	Flexural Modulus, 73°F	D790	psi	400,000
	Izod Impact Strength, Notched, 73°F	D258	ft-lbs/in	1.75
	Rockwell Hardness	D785	"R" scale	110
	Coefficient of friction, Static	na	na	.16
	Coefficient of friction, Dynamic			.14
<b>THERMAL</b>	THERMAL			
	Coefficient of Linear Thermal Expansion	D696		(40-50) x 10 <sup>-5</sup>
	Maximum Temperature for long Term			
	Continuous	-		200
	Intermittent	-		330

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability. All trade and patent rights should be observed. All rights reserved. TECAST™ 6PALM - Ensinger Industries, Inc.

### MATERIAL AVAILABILITY

TECAST™ 6PALM is available in rod, plate, tube and custom parts.



DISTRIBUTED BY

HEADQUARTERS  
 365 Meadowlands Boulevard  
 Washington, Pennsylvania 15301  
**Telephone:** 800-243-3221 *Sales*  
 800-869-4029 *Technical*  
**Fax:** 724-746-9209  
 e-mail: sales@ensinger-ind.com

DS133/0109

Dallas, Texas (Corporate Offices)  
 Houston, Texas  
 Brandon, Mississippi

phone 800-782-1836 / 214-239-3870  
 phone 800-282-4388 / 713-979-0660  
 phone 800-457-8623 / 601-825-7919

fax 214-239-3871  
 fax 713-979-0664  
 fax 601-825-7109