# TECAST™ 6PALM

## Polyamide 6

Ensinger Inc.

#### Message:

TECAST<sup>™</sup> 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<sup>™</sup> 6PALM contains MOS2 and oil to "bridge the gap" between oil-filled and MOS2 cast nylons. It offers the better wear properties of oil-filled nylons while maintaining more of the mechanical characteristics of MOS2-filled cast nylons.

TECAST<sup>™</sup> 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.

General Information					
Additive	Lubricant 2				
	Molybdenum Disulfide Lubricant				
Features	Fatigue Resistant				
	Good Corrosion Resistance				
	Good Wear Resistance				
	Lubricated				
	Machinable				
Uses	Bearings				
	Bushings Construction Applications				
	Industrial Applications				
	Metal Replacement				
	Thrust Washer				
Forms	Shapes				
Hardness	Nominal Value		Test Method		
Rockwell Hardness (R-Scale)	110		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength (Break, 23°C)	58.6	MPa	ASTM D638		
Tensile Elongation (Break, 23°C)	40	%	ASTM D638		
Flexural Modulus (23°C)	2760	MPa	ASTM D790		
Flexural Strength (23°C)	88.3	MPa	ASTM D790		
Coefficient of Friction					
vs. Itself - Dynamic	0.14				
vs. Itself - Static	0.16				
Wear Factor <sup>1</sup> (0.28 MPa, 0.25 m/sec)	99	10^-8 mm³/N·m	ASTM D3702		
Impact	Nominal Value	Unit	Test Method		

Notched Izod Impact (23°C)	93	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	7.2E-4 to 9.0E-4	cm/cm/°C	ASTM D696
Maximum Service Temperature			
Intermittent	166	°C	
Long Term	93	°C	
Limiting Pressure Velocity	16000 to 17000	psi•fpm	
NOTE			
1.	Against Steel		

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### Recommended distributors for this material

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