



## TURCITE®

### Characteristics

- \* Self-Lubricating Bearing Material
- \* Maximum Continuous Service Temperature to 180F
- \* High Chemical Resistance
- \* Moisture Resistant
- \* Stress Relieved for Stability

### Description

Self-Lubricating thermoplastic bearing material ideal for clean environments. Low water absorption enables Turcite to retain its dimensional integrity over long periods of time. Parts perform well under dynamic loads and vibratory conditions. **Turcite A** is best suited for medium to heavy loads at moderate speeds. **Turcite X** is best when used in low load high speed applications. Its low thermal expansion rates result in a structurally stable material.

### Forms Available

ROD .250 to 8.000 " diameter, Lengths to 8'  
 TUBE Not Available  
 PLATE Not Available  
 COLOR Turcite A = Blue Turcite X = Red

### Typical Property Values

#### MECHANICAL @ 73°F

Specific Gravity	
Tensile Strength	psi
Tensile Modulus of Elasticity	psi
Tensile Elongation ( at Break )	%
Flexural Strength	psi
Flexural Modulus of Elasticity	psi
Shear Strength	psi
Compressive Strength, 10% Deformation	psi
Compressive Modulus of Elasticity	psi
Rockwell Hardness	M Scale
Izod Impact Strength, Notched	ft-lbs/in. of notch
Coefficient of Friction, Dynamic ( Dry vs. Steel )	
Limiting PV ( 4 :1 Safety Factor Applied )	ft.lbs/in. <sup>2</sup> min
Wear Factor	in <sup>3</sup> -min/ft.lbs. hr.
Water Absorption 24 hrs	% by wt.

#### THERMAL

Coefficient of Linear Expansion ( -40°F to 300°F )	in./in./°F
Heat Deflection Temperature @264 psi	°F
Melting Point ( Crystalline )	°F
Continuous Service Temperature in Air	°F
Thermal Conductivity	°F

#### ELECTRICAL

Dielectric Strength, Short Term	Volts/mil
Surface Resistivity	Ohms/Sq.
Dielectric Constant	1 MHz
Dissipation Factor	1 MHz

#### Turcite®

##### A

1.49
7,600
15
11,000
350,000
13,000
81
0.57
0.30
7,500
43 x 10 <sup>-10</sup>
0.20

#### Turcite®

##### X

1.46
5,900
19
8,000
335,000
12,000
63
0.54
0.22
16,000
30 x 10 <sup>-10</sup>
0.20

( Properties listed above are provided for reference only, they should not be used for design specifications or quality control , Turcite is a registered Trademark of Busak - Shamban )