

Ensinger Tecast Vekton™ 6PAG Graphite-Filled Cast Nylon 6 (PA6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Cast

Material Notes:

Tecast® 6PAG is a graphite powder-filled with properties similar to MoS2-filled but better suited to wet applications. General Tecast® Cast Nylon Information: Tecast cast nylon, available in a variety of grades, offers a combination of good mechanical properties, excellent bearing and wear characteristics, and the large-size capabilities of the casting process. Its fatigue resistance, noise damping ability, corrosion resistance, and light weight make Tecast ideal for metal replacement applications, such as bearings, gears, sheaves, and sprockets. At one-eighth the weight of bronze, Tecast is easier to handle and maintain than metals such as iron, aluminum, brass, and bronze, which it typically replaces in industrial wear applications. Other materials that Tecast commonly replaces because of its superior performance are laminated phenolics, elastomers, and wood. Tecast has excellent wear and abrasion resistance, resulting in extended component life and lower maintenance cost. Its formulations are readily available in rod, plate, and tube. Nonstandard shapes, such as rings, discs, and blocks can be economically produced in small quantities with short lead times. Custom parts can be cast-size or near-net-shape with relatively inexpensive tooling. General Tecast® Application Information: Its unique combination of strength, wear resistance, toughness, machinability, and corrosion resistance make Tecast cast nylon ideal for bearings, thrust washers, bushings, wear pads, sheaves, rollers, gears, sprockets, and wheels. Tecast is commonly used in construction equipment, material handling systems, amusement park rides, pulp and paper processing equipment, steel mills and industrial equipment. Information supplied by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecast-Vekton-6PAG-Graphite-Filled-Cast-Nylon-6-PA6.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------|------------------------------------|------------------------|
| Density | 1.14 - 1.15 g/cc | 0.0412 - 0.0416 lb/in ³ | ASTM D792 |
| Water Absorption | 0.75 % | 0.75 % | at 24 hours; ASTM D570 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|---------------|-----------|
| Hardness, Rockwell R | 100 | 100 | ASTM D785 |
| Tensile Strength, Yield | 60.7 MPa | 8800 psi | ASTM D638 |
| Elongation at Break | 25 % | 25 % | ASTM D638 |
| Tensile Modulus | 2.41 GPa | 350 ksi | ASTM D638 |
| Flexural Strength | 86.2 MPa | 12500 psi | ASTM D790 |
| Flexural Modulus | 2.41 GPa | 350 ksi | ASTM D790 |
| Izod Impact, Notched | 0.641 J/cm | 1.20 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|--------------------|----------------------|----------------------|-----------|
| CTE, linear | 72.0 µm/m-°C | 40.0 µin/in-°F | ASTM D696 |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------|---------|------------------------|
| Melting Point | 220 °C | 428 °F | ASTM D2153 |
| Maximum Service Temperature, Air | 93.3 °C | 200 °F | Long Term; ASTM UL746B |
| | 166 °C | 330 °F | Intermittent |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------------|------------------|-----------|
| Dielectric Constant | 3.7 | 3.7 | ASTM D150 |
| | @Frequency 60 Hz | @Frequency 60 Hz | |
| Dissipation Factor | 0.0020 | 0.0020 | ASTM D150 |
| | @Frequency 60 Hz | @Frequency 60 Hz | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China