

## Ensinger Tecapeek® XP-109 Compression Molded PEEK Compound, 30% Carbon Fiber with 15% PTFE

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled , Polyetheretherketone, PEEK, PTFE-Filled

### Material Notes:

Ensinger Special Polymers offers over twenty different VICTREX® PEEK blends to choose from and has the capability to blend custom compounds for specific applications. Compression molding results in lower amounts of scrap, uniform physical properties and fewer molded-in stresses. TECAPEEK is a high-performance engineering thermoplastic. This semi-crystalline material has a balance of high temperature mechanical properties, chemical and steam resistance, superior wear properties and processability which makes it unique. Applications Include: Bearings and Bushings Down-hole instrumentation Wear Rings Ball Valve Seats Electrical Components Back-up and V-Rings Piston Rings and Rider Bands Information provided by Ensinger Special Polymers, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ensinger-Tecapeek-XP-109-Compression-Molded-PEEK-Compound-30-Carbon-Fiber-with-15-PTFE.php](http://www.lookpolymers.com/polymer_Ensinger-Tecapeek-XP-109-Compression-Molded-PEEK-Compound-30-Carbon-Fiber-with-15-PTFE.php)

| Physical Properties | Metric    | English                   | Comments  |
|---------------------|-----------|---------------------------|-----------|
| Density             | 1.51 g/cc | 0.0546 lb/in <sup>3</sup> | ASTM D792 |
| Filler Content      | 45 %      | 45 %                      |           |

| Mechanical Properties | Metric   | English   | Comments  |
|-----------------------|----------|-----------|-----------|
| Tensile Strength      | 82.7 MPa | 12000 psi | ASTM D638 |
| Elongation at Break   | 2.0 %    | 2.0 %     | ASTM D638 |
| Flexural Strength     | 128 MPa  | 18500 psi | ASTM D790 |
| Flexural Modulus      | 8.27 GPa | 1200 ksi  | ASTM D790 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| Melting Point      | 343 °C | 649 °F  | DSC      |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color                  | Black |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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