

## Ensinger Tecapeek® XP-119G Compression Molded PEEK Compound, 10% Carbon Fiber with 5% Graphite

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber 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-119G-Compression-Molded-PEEK-Compound-10-Carbon-Fiber-with-5-Graphite.php](http://www.lookpolymers.com/polymer_Ensinger-Tecapeek-XP-119G-Compression-Molded-PEEK-Compound-10-Carbon-Fiber-with-5-Graphite.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ASTM D792
Filler Content	15 %	15 %	
Crystallinity	21 %	21 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength	91.7 MPa	13300 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ASTM D638
Flexural Strength	166 MPa	24100 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Compressive Strength	169 MPa	24500 psi	10% Deformation; ASTM D695
Compressive Modulus	3.03 GPa	440 ksi	ASTM D695

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

Descriptive Properties	Value	Comments
Color	Black	

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