

Ensinger Tecapeek® CLASSIX XRO Polyetheretherketone (PEEK)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

TECAPEEK™ high performance polymer, made from Victrex PEEK polymer, has successfully replaced glass, stainless steel and titanium in a growing range of medical applications. The material's exceptional combination of properties allow engineers and designers the ability to create cost-effective, innovative parts that exhibit outstanding wear, heat, electrical and chemical resistance. The TECAPEEK™ family is made up of materials for medical applications. TECAPEEK™ MT, unfilled pigmented medical grade PEEKTECAPEEK™ XP98, compression molded 30% carbon fiber filled PEEK (isotropic properties)TECAPEEK™ MT CF30, extruded 30% carbon fiber filled PEEKTECAPEEK™ Classic™, ISO 10993 certification by resin and extrusion lot of 30 days contactTECAPEEK™ Classix™ XRO-20 radio opaque grade with 20% BaSO4 addedThe TECAPEEK™ family of high performance plastics are high effective in the creation and manufacture of high quality medical instruments. Five separate grades, each with qualities to meet a wide range of requirements for the engineer and product designer. Information Provided by Ensinger Industries, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecapeek-CLASSIX-XRO-Polyetheretherketone-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 g/cc	ASTM D792
Density	1.65 g/cc	0.0596 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa @Temperature 22.8 °C	11600 psi @Temperature 73.0 °F	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	5.00 GPa @Temperature 22.8 °C	725 ksi @Temperature 73.0 °F	1% Secant; ASTM D638
Flexural Modulus	4.00 GPa @Temperature 22.8 °C	580 ksi @Temperature 73.0 °F	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	340 °C	644 °F	
Maximum Service Temperature, Air	260 °C	500 °F	continuous

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