

Ensinger Tecapeek® ID Metal Detectable Polyetheretherketone

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

Material Notes:

Tecapeek™ ID metal detectable polyetheretherketone, made from Victrex® PEEK 450G polymer, is formulated to reduce the risk of product contamination and allow for easy detection of fragments in the unlikely event of failure. Typical applications for TECAPEEK™ ID are highly stressed parts such as high temperature kettle scrapers and agitators. Information provided by Ensinger Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecapeek-ID-Metal-Detectable-Polyetheretherketone.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	ISO 527
Elongation at Break	4.5 %	4.5 %	ISO 527
Tensile Modulus	4.30 GPa	624 ksi	1 mm/min; ASTM D638
Flexural Modulus	4.40 GPa	638 ksi	ASTM D790
Charpy Impact, Notched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 178

Thermal Properties	Metric	English	Comments
Melting Point	343 °C	649 °F	DIN 53 765
Maximum Service Temperature, Air	260 °C	500 °F	Long Term
	300 °C	572 °F	Short Term
Glass Transition Temp, Tg	143 °C	289 °F	DIN 53 765
Flammability, UL94	V-0	V-0	

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