

TECAPEEK UD blue - Ultra Detectable - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

dark blue

Density

1.74 g/cm³

Fillers

detectable filler

Main features

- metal detectable
- x-ray detectable

Target Industries

- food processing
- food technology
- engineering for beverage filling systems
- pharmaceutical industry
- heat exchanger
- conveyor technology

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Tensile strength	@ 73°F	12,750	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@ 73°F	772,200	psi	ASTM D 638	
Elongation at yield (tensile test)	@ 73°F	3.43	%	ASTM D 638	
Elongation at break (tensile test)	@ 73°F	4.13	%	ASTM D 638	
Flexural strength	@ 73°F	21,230	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73°F	728,400	psi	ASTM D 790	
Compression strength	@ 73°F 10% strain	21,235	psi	ASTM D 695	
Compression modulus	@ 73°F	536,730	psi	ASTM D 695	
Impact strength (Izod)	@ 73°F	.79	ft-lbs/in	ASTM D 256	
Rockwell hardness	@ 73°F M scale	101	%	ASTM D 785	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Melting temperature		644	°F	-	
Service temperature	Maximum Short Term	572	°F	-	
Service temperature	Maximum Long Term	500	°F	-	
<i>Other properties</i>	<i>condition</i>	<i>value</i>	<i>unit</i>	<i>test method</i>	<i>comment</i>
Flammability (UL94)		V0		-	

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com.

Ensinger Inc. Headquarters
365 Meadowlands Boulevard
Washington, PA 15301, USA

Phone 800-243-3221 Sales
Phone 800-869-4029 Technical
Fax 724-746-9209
sales@ensingerusa.com

Date: 2016/11/28

Version: A0