

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>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	@ 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>test method</i>	<i>comment</i>
Melting temperature		644 °F	-	
Service temperature	Maximum Long Term	500 °F	-	
Service temperature	Maximum Short Term	572 °F	-	
<i>Other properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Flammability (UL94)		V0	-	

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Date: 2016/11/28

Version: A0