

## TECAPEEK UD blue - Ultra Detectable - Stock Shapes

**Chemical Designation**  
PEEK (Polyetheretherketone)

**Colour**  
dark blue

**Density**  
1.74 g/cm<sup>3</sup>

**Fillers**  
detectable filler

**Main features**  
→ metal detectable  
→ x-ray detectable

**Target Industries**  
→ food processing  
→ 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>
Modulus of elasticity (tensile test)	@ 73°F	772,200	psi	ASTM D 638	
Tensile strength	@ 73°F	12,750	psi	ASTM D 638	
Elongation at yield	@ 73°F	3.43	%	ASTM D 638	
Elongation at break	@ 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	-	

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