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

Chemical Designation
PEEK (Polyetheretherketone)

Colour
dark blue

Density
1.74 g/cm^3

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

Mechanical properties	*condition*	*value*	*unit*	*test method*	*comment*
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	

Thermal properties	*condition*	*value*	*unit*	*test method*	*comment*
Melting temperature		644	°F	-	
Service temperature	Maximum Short Term	572	°F	-	
Service temperature	Maximum Long Term	500	°F	-	

Other properties	*condition*	*value*	*unit*	*test method*	*comment*
Flammability (UL94)		V0		-	

- Resin specification:
  ASTM D4000-13 PEEK
  Shapes specification:
  ASTM D6262-23 S-PAEK0100

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