

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

Chemical Designation	Main features	Target Industries
PEEK (Polyetheretherketone)	→ metal detectable → x-ray detectable	
Colour		
dark blue		
Density		
1.74 g/cm ³		
Fillers		
detectable filler		

Mechanical properties	condition	value	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	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	test method	comment
Flammability (UL94)		V0		-

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Date: 2016/11/28

Version: A0