

TECAPEEK ® ID blue - Stock Shapes (rods, plates, tubes)

<i>Chemical Designation</i> PEEK (Polyetheretherketone)		<i>in features</i> etectable via meta	al detector		<i>Target Industries</i> → food processing			
<i>Colour</i> blue grey	⇒ h	ery good chemica /drolysis and supe esistant		am	 → food technology → engineering for beverage filling systems → packaging and paper machinery → conveyor technology → pharmaceutical industry 			
<i>Density</i> 1.44 g/cm ³	⇒ hi	ood heat deflectio gh creep resistan	ce	re				
<i>Fillers</i> detectable filler		 → inherent flame resistance → good machinability 			→ mechanical engineering			
Mechanical properties	condition	value	unit	test meth	od	comment		

Modulus of elasticity (tensile test)	(1mm/min)	624,000	psi	DIN EN ISO 527-2		(1) Data obtained from public source(2) Data obtained from public		
Tensile strength at yield	50 mm/min	14,500	psi	DIN EN ISO 527-2		source		
Tensile strength at break	50 mm/min	16,100	psi	DIN EN ISO 527-2	1)	(3) Data obtained from public source(4) Data obtained from public source		
Elongation at yield (tensile test)	50 mm/min	4	%	DIN EN ISO 527-1	2)			
Elongation at break (tensile test)	@ 73 °F	4	%	DIN EN ISO 527-2		300106		
Flexural strength	2 mm/min 10N	24,100	psi	DIN EN ISO 178	3)			
Modulus of elasticity (flexural test)		638,000	psi	ASTM D 790				
Compression modulus	5 mm/min 10N	696,000	psi	EN ISO 604	4)			
Impact strength (Charpy)		21.4	ft-lbs/in	DIN EN ISO 179-1				
Thermal properties	condition	value	unit	unit test method		comment		
Glass transition temperature		289	°F	DIN 53765				
Melting temperature		649	°F	DIN 53765				
Service temperature	Intermittent	572	°F	-				
Service temperature	Long Term	500	°F	-				
Electrical properties	condition	value	unit	test method		comment		
surface resistivity		1.0*10 ¹⁴	Ω/square	-	1)	(1) Data obtained from public		
volume resistivity		1.0*10 ¹⁴	Ω*cm	- 2)		 source (2) Data obtained from public source 		

Other properties	condition	value	unit	test method		comment
Moisture absorption	@ 24 hrs. 73°F	0.02	%	ASTM D 570	1)	(1) Data obtained from public
Moisture absorption		0.03	%	ASTM D 570	2)	source (2) Data obtained from public
Flammability (UL94)		V0		-		source

→ TECAPEEK products are based on Victrex® PEEK polymer.

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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

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