

## TECAPEEK SM Natural - Stock Shapes (rods, plates, tubes)

<i>Chemical Designation</i> PEEK (Polyetheretherketone) <i>Colour</i> beige opaque <i>Density</i> 1.31 g/cm <sup>3</sup>		<ul> <li>Main features</li> <li>electrically insulating</li> <li>high thermal and mechanical capacity</li> <li>hydrolysis and superheated steam resistant</li> <li>good chemical resistance</li> <li>flame retardant according to UL94 V-0</li> <li>good machinability</li> <li>good slide and wear properties</li> <li>resistant to many solvents</li> </ul>			<ul> <li>Target Industries</li> <li>oil and gas industry</li> <li>chemical technology</li> <li>mechanical engineering</li> <li>electrical engineering</li> <li>aircraft and aerospace technology</li> <li>automotive industry</li> <li>semiconductor technology</li> <li>vacuum technology</li> <li>textile industry</li> </ul>		
Mechanical properties	condition	value	unit	test meth	hod		comment
Tensile strength		102	MPa	DIN EN IS	SO 527-2		
Modulus of elasticity (tensile test)		3520	MPa	DIN EN IS	SO 527-2		
Tensile strength at yield		102	MPa	DIN EN IS	SO 527-2		
Elongation at yield (tensile test)		3.6	%	DIN EN IS	SO 527-2		
Elongation at break (tensile test)		19	%	DIN EN IS	SO 527-2		
Flexural strength		164	MPa	-			
Modulus of elasticity (flexural test)		3670	MPa	-			
Shore hardness	D scale	88		-			
Thermal properties	condition	value	unit	test metho	od		comment
Glass transition temperature		150	°C	DIN 53765		1)	(1) Public Source

DIN 53765 Glass transition temperature 150 С 1) (1) Public Source (2) Public Source; Individual Melting temperature 341 °C testing recommended Service temperature short term 300 °C 2) Long Term 260 °C Service temperature

→ TECAPEEK products are based on Victrex® PEEK polymer.

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com.

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