

## TECANYL ® MT - Stock Shapes (rods, plates, tubes)

Chemical Designation	Main features
PPE (Polyphenylene ether)	→ autoclavabl
<i>Colour</i> various opaque	→ easily mach → very good c → high toughn
<i>Density</i> 1.08 g/cm <sup>3</sup>	<ul> <li>→ biocompatil</li> <li>→ hydrolysis a resistant</li> <li>→ resistance a</li> </ul>

## le

- hinable to tight tolerance
- chemical resistance
- ness
- ible
- and superheated steam
- against high energy radiation
- high dimensional stability

## Target Industries

- → medical technology
- pharmaceutical industry
- → food engineering

condition @ 73 °F	<i>value</i>	unit	test method		comment
@ 73 °F	471 000				comment
	471,000	psi	ASTM D 638		(1) Data obtained from public source
@ 73 °F	9,700	psi	ASTM D 638	1)	
@ 73 °F	9,800	psi	ASTM D 638		
@ 73 °F	16.3	%	ASTM D 638		
@ 73 °F	14,600	psi	ASTM D 790		
@ 73 °F	368,000	psi	ASTM D 790		
@ 73 °F	2.6	ft-lbs/in	ASTM D 256		•
condition	value	unit	test method	•	comment
@264 psi	296	°F	ASTM D 648		<ul><li>(1) Data obtained from public source</li><li>(2) per ISO 306</li></ul>
Long Term	220	°F	-	1)	
-40°F to 100°F	4.81*10 <sup>-5</sup>	in/in/°F	ASTM E 831		
	168	°F	-	2)	
condition	value	unit	test method		comment
@ saturation, 73 °F	0.23	%	ASTM D 570		
	© 73 °F @ 73 °F @ 73 °F @ 73 °F @ 73 °F <i>condition</i> @ 264 psi Long Term -40°F to 100°F <i>condition</i>	@ 73 °F       9,800         @ 73 °F       16.3         @ 73 °F       14,600         @ 73 °F       368,000         @ 73 °F       2.6         condition       value         @264 psi       296         Long Term       220         -40°F to 100°F       4.81*10 <sup>-5</sup> 168       168         condition       value	@ 73 °F         9,800         psi           @ 73 °F         16.3         %           @ 73 °F         14,600         psi           @ 73 °F         368,000         psi           @ 73 °F         2.6         ft-lbs/in           condition         value         unit           @264 psi         296         °F           Long Term         220         °F           40°F to 100°F         4.81*10 <sup>-5</sup> in/in/°F           168         °F         condition         value	© 73 °F         9,800         psi         ASTM D 638           @ 73 °F         16.3         %         ASTM D 638           @ 73 °F         14,600         psi         ASTM D 790           @ 73 °F         368,000         psi         ASTM D 790           @ 73 °F         368,000         psi         ASTM D 790           @ 73 °F         2.6         ft-lbs/in         ASTM D 256           condition         value         unit         test method           @264 psi         296         °F         ASTM D 648           Long Term         220         °F         -           -40°F to 100°F         4.81*10 <sup>-5</sup> in/in/°F         ASTM E 831           168         °F         -         -           condition         value         unit         test method	@ 73 °F       9,800       psi       ASTM D 638         @ 73 °F       16.3       %       ASTM D 638         @ 73 °F       14,600       psi       ASTM D 790         @ 73 °F       14,600       psi       ASTM D 790         @ 73 °F       368,000       psi       ASTM D 790         @ 73 °F       2.6       ft-lbs/in       ASTM D 256         condition       value       unit       test method         @264 psi       296       °F       ASTM D 648         Long Term       220       °F       -       1)         -40°F to 100°F       4.81*10 <sup>-5</sup> in/in/°F       ASTM E 831         168       °F       -       2)         condition       value       unit       test method

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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