



## Material data sheet

## PTFE white

### Polymer on the basis of polytetrafluorethylen.

Very good chemical and temperature resistance. FDA approval; resistant to: almost all chemicals

<i>Properties</i>	<i>Condition</i>	<i>Standard</i>	<i>Unit</i>			
<b>Colour</b>				<b>white</b>		
<b>Density/ specific gravity</b>	<b>23°C</b>	<b>DIN 53 479</b>	<b>kg/m<sup>3</sup></b>	<b>2150</b>	<b>g/cm<sup>3</sup></b>	<b>2,15</b>
<b>Hardness</b>	<b>23°C</b>	<b>ISO 868</b>	<b>Shore D</b>	<b>55+/-3</b>	<b>Shore D</b>	<b>55+/-3</b>
<b>Ball indentation hardness</b>	<b>23°C</b>	<b>DIN 53 456 H135/30</b>	<b>MPa</b>	<b>23+/- 5</b>	<b>Psi</b>	<b>3335+ /-725</b>
<b>Tensile strength</b>	<b>23°C</b>	<b>ASTM D 4745-79</b>	<b>MPa</b>	<b>27</b>	<b>Psi</b>	<b>≥3916</b>
<b>Elongation at break</b>	<b>23°C</b>	<b>ASTM D 4745-79</b>	<b>%</b>	<b>250</b>	<b>%</b>	<b>250</b>
<b>Compressive strength</b>	<b>23°C</b>	<b>DIN 53 455</b>	<b>MPa</b>	<b>≥4</b>	<b>Psi</b>	<b>580</b>
<b>Thermal conductivity</b>	<b>23°C</b>	<b>DIN 52 612</b>	<b><math>\frac{J \times 10^{-3}}{m \times h \times K}</math></b>	<b>0,08</b>	<b><math>\frac{J \times 10^{-3}}{m \times h \times K}</math></b>	<b>0,08</b>
<b>Coefficient of thermal expansion</b>	<b>25°C – 200°C</b>		<b>K<sup>-1</sup> x 10<sup>-5</sup></b>	<b>19</b>	<b>K<sup>-1</sup> x 10<sup>-5</sup></b>	<b>19</b>
<b>Coefficient of friction</b>	<b>23°C</b>		<b>μ</b>	<b>0,08</b>	<b>μ</b>	<b>0,08</b>
<b>Minimum service temperature</b>			<b>°C</b>	<b>-200</b>	<b>°F</b>	<b>-328</b>
<b>Maximum service temperature</b>			<b>°C</b>	<b>260</b>	<b>°F</b>	<b>500</b>
<b>Young's modulus</b>	<b>23°C</b>	<b>DIN 53 457</b>	<b>MPa</b>	<b>540</b>	<b>Psi</b>	<b>78500</b>
<b>* dynamic coefficient of friction, dry, Steel 16MnCR5: v=0,6m/s; p=0,05 MPa; t=5h</b>						

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party, and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.