



**POLESTAR POLYMERS**

An ISO 9001 : 2015 Certified Company

## **POLESTAR® PTFE - Moulded**

### **Technical Data Sheet – Rods, Sheets, Tubes**

<b>Properties</b>	<b>Test Method</b>	<b>Unit</b>	<b>Value</b>
Density	ASTM D792	g / cm <sup>3</sup>	2,14 – 2,18
Hardness – Shore D	ASTM D2240	/	≥ 51
Tensile Strength	ISO 527	N / mm <sup>2</sup>	≥ 24
Elongation at break	ISO 527	%	≥ 250
Compressive Strength at 1% deformation	ASTM D695	N / mm <sup>2</sup>	4 - 5
Deformation under load at room temperature after 24 hours at 13,7 N/mm <sup>2</sup>	ASTM D621	%	≤ 17
Permanent deformation as above after 24 hrs of rest at room temperature	ASTM D621	%	≤ 9
Impact strength Izod	ASTM D256	J / m	153
Dynamic coefficient of friction	ASTM D3702	/	0,06
Wear factor K	ASTM D3702	/	2.900
Service Temperature (min – max)	/	°C	- 200 / + 260
Thermal expansion coefficient (linear) 25 – 100 °C	Similar to ASTM D696	10 <sup>-5</sup> (mm/mm) / °C	12 - 13
Dielectric strength (specimen 0,5mm thick)	ASTM D149	KV / mm	≥ 40
Dielectric constant at 60 Hz and 10 <sup>6</sup> Hz	ASTM D150	/	2,05 – 2,10
Volume resistivity	ASTM D257	Ω * cm	10 <sup>18</sup>
Surface resistivity	ASTM D257	Ω	10 <sup>17</sup>

**Note:** The information contained herein are typical values intended for reference and comparison purposes only. They should not be used as a basis for design specifications or quality control. POLESTAR POLYMERS will not provide any legally binding guarantee of certain properties or any suitability.

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