

# Teflon

PTFE - Polytetrafluoroethylene

A synthetic fluoropolymer known for its resistance to high temperatures, chemicals and corrosion. Used in many industrial and consumer applications due to its non-stick properties, very low coefficient of friction and excellent electrical insulation properties.



## Material properties

<b>Density</b>	ISO 1183	<b>2,22</b>	g/cm <sup>3</sup>
<b>Water absorption at saturation</b>	ISO 62	<b>0</b>	%
<b>Hygroscopicity</b>	ISO 62	<b>0</b>	%
<b>Tensile strength</b>	ISO 527	<b>28-35</b>	MPa
<b>Elongation at break</b>	ISO 527	<b>210-500</b>	%
<b>Yield strength</b>	ISO 527	<b>15</b>	MPa
<b>Elastic modulus</b>	ISO 527	<b>450-750</b>	MPa
<b>Flexural strength</b>	ISO EN 178	<b>5,7</b>	MPa
<b>Hardness</b>	ISO 868	<b>51 D</b>	Shore
<b>HDT 0.45 MPa</b>	ISO 75	<b>135</b>	°C
<b>HDT 1.8 MPa</b>	ISO 75	<b>55</b>	°C
<b>Vicat softening temperature</b>	ISO 306	<b>110</b>	°C
<b>Melting temperature</b>	ISO 11357	<b>327</b>	°C
<b>Flammability</b>	UL94	<b>V-0</b>	
<b>Thermal conductivity</b>	DIN 52612	<b>0,25</b>	W/mK

### Maximum dimensions

500x500x90 mm (19.7x19.7x3.5 in)

### Tolerances

ISO 2768-1 medium (m) class

### Applications

Numerous industrial and consumer goods applications due to its non-stick properties, very low coefficient of friction and electrical insulation properties

Information contained in this data sheet is up-to-date and correct as at the date of issue. As Weerg cannot control or anticipate the conditions under which this product may be used, each user should review the information in the specific context of the planned use. To the maximum extent permitted by law, Weerg will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given other than those implied mandatory by law.

<b>(20°C)</b>	DIN 52612	<b>0,25</b>	W/mK
<b>Volumic electrical resistivity</b>	IEC 60093	<b>10<sup>18</sup></b>	Ω*m

Information contained in this data sheet is up-to-date and correct as at the date of issue. As Weerg cannot control or anticipate the conditions under which this product may be used, each user should review the information in the specific context of the planned use. To the maximum extent permitted by law, Weerg will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given other than those implied mandatory by law.