

TECHNICAL DATA SHEET

Engineering plastic type PTFE

General notes:

- » **PTFE** polytetrafluorethylene tips (a material equivalent to Teflon®)
- » extremely low sliding friction coefficient
- » anti-adhesive surface
- » excellent high and low temperature resistance
- » excellent chemical resistance
- » high pressure and wear resistance
- » very good dielectric behavior
- » water resistant and not inflammable
- » typical applications include handling thin and delicate substrates like glass, metal and silicon wafers while avoiding scratching or breaking of thin layers

Mechanical properties

Flexural modulus +23°C	500 MPa	ASTM D 790
Tensile modulus +23°C	550 MPa	ASTM D 638
Tensile strength +23°C	27 MPa	ASTM D 638
Tensile elongation at break +23°C	300%	ASTM D 638
Izod - Impact strength (notched) +23°C	186 J/m	ASTM D 256
Hardness, Shore D	50	ASTM D 785

Thermal properties

Coef. of lin. thermal expansion, normal	13.5 cm/cm °C	ASTM D 696
Continuous Use Temperature	from -100 to +260 °C	20'000 h
Short Time Temperature	+280°C	

Electrical properties

Volume resistivity	>10¹³ Ohm cm	ASTM D 257
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Other properties

Density	2.18 g/cm³	ISO 1183
Colour	White	

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-tek SA declines all responsibility from an improper use of the product described in this document.