

TECHNICAL DATA SHEET

Thermoplastic Elastomer TPE

General notes:

- » **TPE** Olefinic Thermoplastic Elastomer, Permanent Antistatic
- » Soft Plastic, was developed in order to achieve a surface resistance 10^8 - 10^9 Ohm in order to minimize the possibility of charge generation by wearing

- » **ESD Protection**



Soft plastic (TPE)



Upper side

Mechanical properties

Tensile strength	2 MPa	<i>ISO 527 ASTM D 638</i>
Tensile elongation	10 +%	<i>ISO 527 ASTM D 638</i>
Hardness, Shore	65-75 A	<i>D-785</i>

Polypropylen compound PP

General notes:

- » **PP** polypropylene-compound
- » Hard Plastic, its function is to ground the metal tool (through the operators hand and the ESD wrist strap)

- » **ESD Protection**



Hardplastic(PP)



Bottom side

Mechanical properties

Tensile strength at break (5mm/min)	20 MPa	<i>ISO 527 ASTM D 638</i>
Elongation at break (5mm/min)	>10%	<i>ISO 527 ASTM D 638</i>
Tensile modulus +23°C	1650 MPa	<i>ISO 527 ASTM D 638</i>
Tensile strength +23°C	190 MPa	<i>ISO 527 ASTM D 638</i>
Izod-Impact strength (notched) +23°C	13 kJ/m	<i>ISO 179/2C</i>

Thermal properties

Temp. of defl. under load (1.80 MPa)	56 °C	<i>ISO 75 ASTM D 648</i>
VICAT softening point B (49 N)	70 °C	<i>ISO 306</i>

Other properties

Density	0.97 g/cm³	<i>ISO 1183</i>
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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.