

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
Tensile elongation
Hardness, Shore

2 MPa
10 +%
65-75 A

ISO 527 ASTM D 638
ISO 527 ASTM D 638
D-785

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**



Hard plastic (PP)



Bottom side

Mechanical properties

Tensile strength at break (5mm/min)
Elongation at break (5mm/min)
Tensile modulus +23°C
Tensile strength +23°C
Izod-Impact strength (notched) +23°C

20 MPa
>10%
1650 MPa
190 MPa
13 kJ/m

ISO 527 ASTM D 638
ISO 527 ASTM D 638
ISO 527 ASTM D 638
ISO 527 ASTM D 638
ISO 179/2C

Thermal properties

Temp. of defl. under load (1.80 MPa)
VICAT softening point B (49 N)

56 °C
70 °C

ISO 75 ASTM D 648
ISO 306

Other properties

Density

0.97 g/cm³

ISO 1183