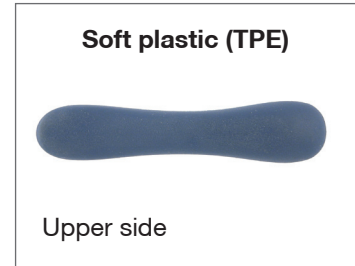# Thermoplastic Elastomer TPE

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
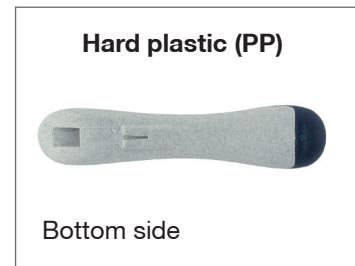
» **ESD** Protection

Soft plastic (TPE)
Upper side

Mechanical properties

Tensile strength	**2 MPa**	*ISO 527 ASTM D 638*
Tensile elongation	**10 +%**	*ISO 527 ASTM D 638*
Hardness, Shore	**65-75 A**	*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)	**20 MPa**	*ISO 527 ASTM D 638*
Elongation at break (5mm/min)	**>10%**	*ISO 527 ASTM D 638*
Tensile modulus +23°C	**1650 MPa**	*ISO 527 ASTM D 638*
Tensile strength +23°C	**190 MPa**	*ISO 527 ASTM D 638*
Izod-Impact strength (notched) +23°C	**13 kJ/m**	*ISO 179/2C*

Thermal properties

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

Other properties

Density	**0.97 g/cm³**	*ISO 1183*

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