

# TPE

## Details

This material exhibits excellent resistance to flexural fatigue. It has high impact strength, excellent chemical resistance, good resistance to tear and abrasion. In addition, it possesses good electrical properties. It is used in grips and handles, seals, plugs, power and hand tool components, wires and cables.

## Key Features

Strong • Tear and abrasion resistant

## Thermal Properties

Property	Value
Heat deflection [°C]	
Glass transition temperature [°C]	
Vicat softening temperature [°C]	
Coefficient of thermal expansion [K <sup>-1</sup> · 10 <sup>-6</sup> ]	
Thermal conductivity [W/m · K]	0.2
Specific heat capacity [J/kg · K]	1700
Melting point [°C]	

## Mechanical Properties

Property	Value
Tensile strength [MPa]	45
Modulus of elasticity [GPa]	
Flexural strength [MPa]	
Flexural modulus [GPa]	1.2
Hardness	
Impact strength [KJ/m <sup>2</sup> ]	30
Elongation at break [%]	200

## Physical Properties

Property	Value
Density [g/cm <sup>3</sup> ]	1.1
Water Absorption [%]	
Electrical Resistivity [ohm-cm]	