

# **Data Sheet: TPE (Elastomer)**

#### **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-1 · 10-6]	
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]	



#### **Manufacturing On Demand**

Flexural modulus [GPa]	1.2
Hardness	
Impact strength [KJ/m²]	30
Elongation at break [%]	200

## **Physical Properties**

Property	Value
Density [g/cm³]	1.1
Water Absorption [%]	
Electrical Resistivity [ohm-cm]	

#### Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit Materialdatacenter.com for further information on this material.