

Data Sheet: PETG

Details

This material has significant chemical resistance, durability and good formability. It has low forming temperatures making it popular in consumer applications. It is commonly used for food containers and bottles for liquid beverages. However, its soft surface makes it prone to wear.

Key Features

Low forming temperature • Resistant chemicals.

Thermal Properties

Property	Value
Heat deflection [°C]	60
Glass transition temperature [°C]	79
Vicat softening temperature [°C]	70
Coefficient of thermal expansion [K-1 · 10-6]	43
Thermal conductivity [W/m · K]	0.162
Specific heat capacity [J/kg · K]	1100

Mechanical Properties

Property	Value
Tensile strength [MPa]	28.3
Modulus of elasticity [GPa]	1.1
Flexural strength [MPa]	39.2
Flexural modulus [GPa]	1.17

Hardness	105
Impact strength [KJ/m ²]	15.3
Elongation at break [%]	5

Physical Properties

Property	Value
Density [g/cm ³]	1.18
Water Absorption [%]	0.1
Electrical Resistivity [ohm-cm]	10×10^{15}

Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit [Materialdatacenter.com](https://www.materialdatacenter.com) for further information on this material.