



# PETG

## Alternative Designations

Polyethylene terephthalate glycol

## Key Features

Low forming temperature • Resistant chemicals • Flexible • Hard

## Description

It is more durable than polyethylene terephthalate (PET) and can be heat-formed to create products that are both strong and flexible. PETG is also easy to recycle, making it an environmentally friendly option for many applications. 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.

## Mechanical Properties

Tensile modulus	2020 MPa
Tensile strength	45 MPa
Elongation at break	35%
Flexural strength	39.2 MPa
Flexural modulus	1.17 GPa
Hardness (Shore D)	105

## Thermal Properties

Heat deflection temperature (1.80 MPa)	63°C
Heat deflection temperature (0.45 MPa)	70°C
Softening temperature	80°C

## Physical Properties

Density	1.27 g/cm <sup>3</sup>
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## Reference

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