



# Polypropylene (PP)

#### **Alternative Designations**

# **Key Features**

Polypropylene homopolymer (PPHP)

Impressive impact strength • Resistant to moisture

## Description

Polypropylene has excellent resistance to moisture and chemicals and impressive impact strength. In addition to being lightweight and durable, polypropylene is also heat-resistant and chemical-resistant, making it ideal for a variety of uses. Polypropylene can be clear or opaque, and is available in a variety of colours. It is a tough material with resistance to fatigue as well as electrical insulation. It is widely used in both domestic and industrial applications.

#### **Mechanical Properties**

ies

Tensile modulus	1600 MPa
Tensile strength	30 MPa
Elongation at break	150%
Flexural strength	40 MPa
Flexural modulus	1.5 GPa
Hardness (shore D)	70

165°C
100°C
130°C
85°C

### **Physical Properties**

Density	0.91 g/cm <sup>3</sup>
---------	------------------------

#### Reference

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