



PPS

Alternative Designations

Key Features

Polyphenylene Sulphide

Rigid, brittle • Resistant to UV light and chemicals • Good dimensional stability

Description

PPS is a semi-crystalline, aromatic polyolefin resin. This material has excellent strength of 80MPa and is highly rigid. It is resistant to high temperature, UV light, chemicals and creep. It is dimensionally stable and has good electrical insulation properties. It is also fire resistant. However, it is brittle. It is applied in the production of automotive parts such as fuel injection systems, switches, and electronic devices such as hair dryer grills, valves for steam iron.

Mechanical Properties

Thermal Properties

Tensile modulus	3447.3 MPa	Melting temperature (20°C/min)
Tensile strength	93 MPa	Heat deflection temperature (1.80 MPa)
Elongation at break	15%	
Flexural strength	144.7 MPa	
Flexural modulus	3.96 GPa	

95

Physical Properties

Hardness (Shore D)

g/cm³

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.

282°C

121°C