



POM / Delrin acetal

Alternative Designations

Acetal homopolymer

Key Features

Durable • Strong • Resistant to wear, creep and warp

Description

This material is an easy resin for molding. It has a relatively high tensile strength as well as high resistance to wear, creep and warp. It is generally durable and tough with low moisture absorption. Furthermore, it is resistant to chemicals such as hydrocarbons and solvents. It is used for a wide range of industrial and mechanical parts such as pumps, valves, bearings, fittings etc.

Mechanical Properties

Tensile modulus	3102 MPa
Tensile strength	75.8 MPa
Elongation at break	30%
Flexural strength	89.6 MPa
Flexural modulus	3.1 GPa
Hardness (Shore D)	150

Thermal Properties

Melting temperature (20°C/min)	175°C
Heat deflection temperature (1.80 MPa)	110°C
Softening temperature	160°C

Physical Properties

Density	1.41 g/cm ³
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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.