



ULTEM 9085

Alternative Designations

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Key Features

High impact strength • Resistant to heat • Flame retardant

Description

This has a high strength – to – weight ratio, high impact strength with good heat resistance. It is highly flame retardant. ULTEM 9085 has excellent mechanical strength and stiffness, making it ideal for parts that need to withstand high loads. It is also resistant to chemicals and has a low coefficient of friction. It is used in the production of prototypes as well as tools such as jigs, fixtures, composite moulds etc. It is comparable to Nylon 6.68 (9800).

Mechanical Properties

Tensile modulus	2150 – 2270 MPa
Tensile strength	42 – 69 MPa
Elongation at break	2.2 – 5.8%
Flexural strength	68 – 112 MPa
Flexural modulus	2.05 – 2.3 GPa

Thermal Properties

Heat deflection temperature (1.80 MPa)	153°C
Softening temperature	173°C

Physical Properties

Density	1.34 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.