Stereolithography (SLA)

HighTemp DL400

Key Features

Heat resistance > 200°C • Stiffness • Impact resistance • Fatigue resistance • Able to print with a layer thickness of 350 µm

Applications

End-use parts • Tooling • Automotive • Engineering • Consumer goods

Product Description

HighTemp DL400 is a high temperature resistant resin, excelling in strength, stiffness, and heat resistance with a heat deflection temperature of 230°C. Ideal for extreme thermal environments, it handles impact, compression, fatigue, and moisture without deforming and supports a 350µm print layer thickness. Optimized for hot fluid and gas manifolds, molds, heat-resistant housings, and outdoor applications, it offers minimal shrinkage, a smooth surface finish, and fine detail printing.

Properties*

Tensile modulus	4,000 MPa
Tensile strength	80 MPa
Elongation at break	4%
Flexural strength	109 MPa
Flexural modulus	3,300 MPa
Impact strength notched Izod	15.6 J/m
Heat deflection temperature (0.45 MPa)	230°C
Water absorption (short term)	0.35%
Density	1.1 g/cm^3
Hardness	95 D

*Post-cured state

Reference

For more detailed source information, please consult the original document linked here. We encourage users to verify the data's relevance and suitability for their specific needs.