



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.





Ultracur3D RG1100

Key Features

Heat resistance > 100°C • Stiffness • UV resistance • Chemical resistance • Flame retardancy

Applications

End-use parts • Automotive • Engineering • Consumer goods

Product Description

Ultracur3D® RG 1100 is a high-strength polyurethane-based engineering grade resin boasting mechanical properties comparable to widely used injection molding grades. With a high heat deflection temperature (HDT 116°C), excellent chemical resistance, and long-term UV stability, it is well-suited for automotive connectors, engineering parts, exterior covers, brackets, and housings, ensuring durability and reliability in various environments.

Properties

| | |
|---|-------------------|
| E modulus | 3,080 MPa |
| Tensile strength | 70 MPa |
| Elongation at break | 5% |
| Flexural strength | 119 MPa |
| Flexural modulus | 2,880 MPa |
| Notched Izod (machined), 23 °C | 16 J/m |
| Heat deflection temperature (0.45 MPa) | 116°C |
| Heat deflection temperature (1.80 MPa) | 85°C |
| Water absorption, short term (24 hours) | 0.32 % |
| Density | 1.2 g/cm³ |
| Hardness | 85D |
| Flame retardancy | UL 94-HB (1.5 mm) |

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.

