Stereolithography (SLA)

Ultracur3D RG 35M

Key Features

High resolution • Stiffness • Low shrinkage • Low water absorption

Applications

Prototyping • End-use parts • Automotive • Electronics

Product Description

Ultracur3D® RG 35 is a medium viscosity, highly reactive urethane transparent photopolymer for 3D printing rigid applications. Offering high stability, rigidity, temperature resistance, and low water absorption, it's ideal for high-performance functional parts like demo parts, performance prototypes, and functional end-use parts. With exceptional tensile strength and resilience, it ensures mechanical robustness and impact resistance.

Properties

E modulus	2,539 MPa
Tensile strength	67.7 MPa
Elongation at break	3.8%
Flexural strength at 5% strain	89 MPa
Flexural modulus	2,546 MPa
Heat deflection temperature (0.45 MPa)	84°C
Heat deflection temperature (1.80 MPa)	64°C
Charpy notched at 23°C	0.97 kJ/m^2
Density	1.23 g/cm^3
Hardness	79D

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.

Stereolithography (SLA)

Watershed XC 11122

Key Features

Smooth surface • Water resistance • Low moisture absorption • Exceptional clarity

Applications

Prototyping • End-use parts • Tooling • Aerospace • Automotive • Electronics • Engineering • Consumer goods

Product Description

WaterShed XC 11122 is a highly popular material offering clear solutions for diverse applications. It mimics the clarity of thermoplastics like ABS and PBT, catering to designers and engineers alike. This material produces optically clear parts with a smooth finish, shortening product development timelines. Ideal for automotive, aerospace, and consumer electronics, it excels in packaging, concept models, and investment casting patterns.

Properties*

Tensile modulus	2,770 MPa
Tensile strength	50.4 MPa
Elongation at break	15.5%
Flexural strength	68.7 MPa
Flexural modulus	2,205 MPa
Izod impact (notched)	25 J/m
Heat deflection temperature (0.45 MPa)	50°C
Heat deflection temperature (1.80 MPa)	49°C
Glass transition temperature	43°C
Water absorption	0.35%
Density	1.12 g/cm^3

*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.