Stereolithography (SLA)

Ultracur3D ST7500

Key Features

Stiffness • High resolution • Low moisture absorption • High durability

Applications

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

Product Description

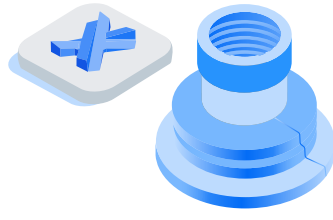
Ultracur3D® ST 7500 G is a high-speed, multi-purpose resin ideal for producing durable, rigid gray parts with excellent stability, even in high humidity. It is fast and easy to print, offering superb surface quality and intricate details. Perfect for rapid design iteration, automotive styling, form, fit, and function testing, as well as durable assemblies, snap fits, figurines, hobby models, and functional prototypes. Its high toughness and low water absorption make it suitable for both indoor and outdoor use.

Properties

Tensile modulus	2,300 MPa
Tensile strength	54 MPa
Elongation at break	13%
Flexural strength	95 MPa
Flexural modulus	2,150 MPa
Notched Izod (machined), 23°C	25 J/m
Heat deflection temperature (0.45 MPa)	64°C
Heat deflection temperature (1.80 MPa)	80°C
Glass transition temperature (DMA, tan(d))	80°C
Density	1.21 g/cm^3
Hardness	82D

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)

Xtreme Grey

Key Features

High resolution • Impact resistance • Low moisture absorption • Durability

Applications

Prototyping • End-use parts • Durable and challenging assemblies • Electronics • Engineering • Consumer goods

Product Description

Accura Xtreme offers ultra-tough grey plastic with exceptional durability, accuracy, and aesthetics, providing an alternative to CNC-machined polypropylene and ABS articles. This material is fast and easy to process, offering physical properties comparable to durable end-use plastics like ABS and Polypropylene. Accura Xtreme delivers outstanding durability, impact resistance, accuracy, and thermal resistance exceeding 60°C.

Properties*

Tensile modulus	1,790 - 1,980 MPa
Tensile strength	38 - 44 MPa
Elongation at break	14 - 22%
Flexural strength	52 - 71 MPa
Flexural modulus	1,520 - 2,070 MPa
Impact strength	35-52 J/m
Heat deflection temperature (0.45 MPa)	62°C
Heat deflection temperature (1.80 MPa)	54°C
Glass transition temperature (DMA, E")	70-74 °C
Density (solid state)	1.19 g/cm^3
Hardness	86D

*Post-cured state, for large frame SLA printers

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.