Stereolithography (SLA)

Accura SL 7820

Key Features

Stiffness • Smooth surface • Low moisture absorption • High resolution

Applications

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

Product Description

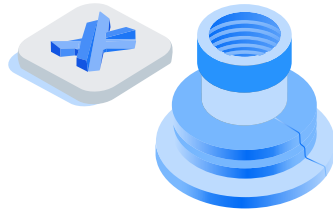
Accura SL 7820 offers a rigid and tough material designed to produce accurate, robust, and durable black parts without the need for painting. Ideal for concept models, functional prototypes, assemblies, and short-run production parts, it simulates and replaces CNC-machined and injection molded black ABS articles. With good surface finish and detail, it ensures strong parts with an ABS-like appearance, providing smooth surfaces and beautiful black finishes without additional finishing steps.

Properties

Tensile modulus	1,890 - 2,440 MPa
Tensile strength	45 - 47 MPa
Elongation at break	6 - 13%
Flexural strength	75 - 78 MPa
Flexural modulus	2,260 - 2,370 MPa
Heat deflection temperature (0.45 MPa)	51°C
Coefficient of thermal expansion (25-50°C)	93 µm/m-°C
Glass transition temperature (Tg)	62 °C
Impact strength	39 - 56 J/m
Density (solid state)	1.16 g/cm^3
Hardness	86 D

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)

Ultracur3D RG35

Key Features

Smooth surface • UV resistance • Stiffness • Low moisture absorption

Applications

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

Product Description

Ultracur3D® RG 35 stands out as a robust ABS-like black plastic offering industry-leading UV stability and lifecycle stability for high-performance prototyping and production. This medium-viscosity, highly reactive urethane photopolymer combines exceptional stability, stiffness, temperature resistance, and low water uptake, making it ideal for rigid applications. It ensures reliable, durable functional parts for automotive housings, jigs and fixtures, molds and inserts, electrical castings, consumer electronics, and legacy replacement.

Properties

Tensile modulus	2,600 MPa
Tensile strength	62 MPa
Elongation at break	10%
Flexural strength	108 MPa
Flexural modulus	2,300 MPa
Melting temperature (20°C/min)	°C
Heat deflection temperature (0.45 MPa)	87°C
Heat deflection temperature (1.80 MPa)	64°C
Glass transition temperature (DMA, tan(d))	112°C
Density	1.2 g/cm^3
Hardness	83D
Flame retardancy	UL 94-HB

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.