STEREOLITHOGRAPHY

Accura Xtreme White 200

Ultra-Tough White Photopolymer for Functional Assemblies

High-performance SLA material designed to replace CNC-machined polypropylene and ABS parts. Exceptional impact resistance, durability, and snap-fit performance for demanding applications including gaming controllers, automotive dashboards, and consumer electronics.



SURFACE FINISHES



Standard Finish Natural

Parts are washed, post-cured and have their supports removed, leaving the smooth, finely detailed surface SLA is known for. Sharp edges, small text and fine features hold their shape, and the surface is ready for fit checks, assembly, presentation or paint.



Performance Paint Premium Finish

A highly durable, automotive-grade coating, hand-finished for smooth surfaces and applied with professional-grade equipment for exceptional adhesion. It comes in matte to semi-gloss, with custom colour matching for parts that need specific branding or visual impact.

BUILD VOLUME	LEAD TIME	LAYER HEIGHT	TOLERANCE
650 × 750 × 550 mm	2-4 business days	0.05-0.1 mm	±0.25% (min ±0.25 mm)

MECHANICAL PROPERTIES

Accura Xtreme White 200 delivers dependable strength and impact resistance for controller shells, dashboard and trim panels and electronic housings. Its balanced mechanical profile handles demanding load conditions while preventing brittleness, and its elongation lets snap-fits flex and return instead of cracking.

Combined with SLA precision, that toughness suits parts with precise geometries and tight tolerances. 3D Systems reports these values for post-cured material as ranges and states no build direction.

PROPERTY	VALUE	TEST STANDARD
Tensile Strength	**45–50 MPa**	ASTM D638
Tensile Modulus	**2,300–2,630 MPa**	ASTM D638
Elongation at Break	**7–20 %**	ASTM D638
Flexural Strength	**75–79 MPa**	ASTM D790
Flexural Modulus	**2,350–2,550 MPa**	ASTM D790
Impact Strength, Notched Izod	**55–66 J/m**	ASTM D256
Shore D Hardness	**78–80**	—

THERMAL PROPERTIES

Accura Xtreme White 200 is built for room-temperature use. Its heat deflection temperature and glass transition sit close together, so parts hold their shape indoors and should be kept away from heat sources and under-hood locations.

Thermal expansion rises sharply above the glass transition, which matters for tight fits on parts that warm up in use.

PROPERTY	VALUE	TEST STANDARD
HDT @ 0.45 MPa	**47 °C**	ASTM D648
HDT @ 1.82 MPa	**42 °C**	ASTM D648
Glass Transition Temperature	**52 °C**	DMA, E″
Coefficient of Thermal Expansion (30–50 °C)	**95 ×10^{-6}/K**	ASTM E831-93
Coefficient of Thermal Expansion (70–140 °C)	**180 ×10^{-6}/K**	ASTM E831-93

PHYSICAL PROPERTIES

Consistent density and surface quality keep critical features in tolerance and downstream finishing predictable. Water absorption is low and 3D Systems rates moisture resistance as good.

Once support touchpoints are sanded, the smooth surface is ready for priming and painting, so assemblies fit and finish without secondary rework.

PROPERTY	VALUE	TEST STANDARD
Density (25 °C)	**1.18 g/cm^3**	—
Water Absorption	**0.38 %**	ASTM D570-98
Color	**White**	—
Surface Finish	**Smooth, injection-molded quality**	3D Systems description