

SLA Materials

Stereolithography (SLA)

We can convert your CAD files into 3D objects, dimensionally accurate very fast, using the stereolithography method. The SLA 250/30 builds highly-detailed parts as large as 10 x 10 x 10 in – 250 x 250 x 250 mm, suitable for a wide variety of solid imaging applications.

Accura Si 45HC, suitable use at temperatures in excess of 100°C (212°F) and durable enough for limited snap-fit testing. Nylon 6-6 plastic properties for thin-walled parts requiring stiffness for high performance engineered plastics. Parts retain both accuracy and stiffness even in wet and humid environments. Longer part life without significant degradation • Parts that can be used in wet applications such as consumer appliance design.

Process Stereolithography

Product:	Accura Si 45HC – Milky Clear
Liquid Density (@ 25°C - 77°F):	1.14 g/cm ²
Solid Density (@ 25°C - 77°F):	1.2 g/cm ²
Tensile Strength (ASM D638):	59.6m MPa 8,520 – 8,860 PSI
Tensile Modulus (ASM D638):	2,760 - 2,960 MPa 400 – 430 KSI
Flexural Strength (ASTM D790):	94 - 101 MPa 13,700 – 14,000 PSI
Flexural Modulus (ASTM D790):	2,760 – 2,900 MPa 400 – 420 KSI
Impact Strength (notched Izod):	11 - 16 J/cm
Elongation @ Break %:	4.8 – 5.4 %
Heat Deflection Temperature (HDT) (ASTM D648):	@ 66 PSI 58°C 136°F @ 264 PSI 51°C 124°F @ 66 PSI with Thermal Postcure 103°C 217°F @ 264 PSI with Thermal Postcure 86°C 187°F

Applications:	High temperature testing: - Automotive "under-the-hood" parts - Lighting components and accessories - HVAC components • Thin-wall enclosures that require high stiffness and durability • Parts involved in water-base or high humidity testing.
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Disclaimer: All tolerance specifications reflect the approximate range of a process's capabilities and should be viewed only as a guide. Actual capabilities are dependent upon manufacturing, equipment, material, and part requirements.