



Accura[®] ClearVue[™]

Easy-to-process plastic with best-in-class clarity, high durability and water resistance for a multitude of applications.

Clear Class
Stereolithography (SLA)

REDEFINING TRANSPARENCY FOR SLA

Utilized in a variety of demanding applications, 3D Systems Accura ClearVue for SLA is the most clear and colorless 3D printing material on the market. Formulated for ease-of-processing, exceptional detail and smooth surface finish, strength, durability and moisture resistance, it simulates the properties and appearance of Polycarbonate and ABS.

This unique combination of clarity, material properties and processing speed makes Accura ClearVue a high performing and cost-effective choice for aesthetic and functional prototypes used to improve product development efficiency of consumer goods, automotive, aerospace and medical components.

Liquid Material

MEASUREMENT	CONDITION	VALUE
Viscosity	@ 30 °C (86 °F)	235-260 cps
Penetration Depth (Dp)		6.1 mils
Critical Exposure (Ec)		9.5 mJ/cm ²
Color		Clear / Transparent
Liquid Density	@ 25 °C (77 °F)	1.10 g/cm ³ 0.04 lbs/in ³

APPLICATIONS

- Models and prototypes requiring high clarity
 - Lighting and lenses
 - Fluid flow visualization models
 - Transparent assemblies
 - Packaging/bottles
- General purpose prototyping
- Medical models and devices (USP Class VI capable)
- Master patterns for RTV molding
- Prototypes of conformal cooling molds
- Snap fits and complex assemblies

BENEFITS

- Best see-thru results
- Part stability and water tightness
- Applications versatility
- Beautiful transparent parts
- Ease-of-use and fast processing

FEATURES

- Highest clarity and transparency
- Excellent humidity/moisture resistance
- Durable and strong
- High accuracy with exceptional detail and smooth surface finish
- USP class VI capable





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Post-Cured Material

MECHANICAL PROPERTIES			
MEASUREMENT	CONDITION	METRIC	U.S.
Tensile Strength (MPa PSI)	ASTM D 638	46-53	6700-7700
Tensile Modulus (MPa KSI)	ASTM D 638	2270-2640	329-383
Elongation at Break	ASTM D 638	3-15 %	
Flexural Strength (MPa PSI)	ASTM D 790	72-84	10400-12200
Flexural Modulus (MPa KSI)	ASTM D 790	1980-2310	287-335
Impact Strength (J/m Ft-lbs/in)	ASTM D 256	40-58	0.70-1.10
Heat Deflection Temperature @ 0.45 MPa (66 PSI) @ 1.82 MPa (264 PSI)	ASTM D 648	51 °C 50 °C	124 °F 122 °F
Coefficient of Thermal Expansion (CTE) ($\mu\text{m}/\text{m}\cdot\text{°C}$ $\mu\text{in}/\text{in}\cdot\text{°F}$)	ASTM E 831-93 25-50° C 50-100° C	122 155	68 86
Glass Transition (Tg)	DMA, E"	62 °C	144 °F
Hardness, Shore D			80
Water Absorption	ASTM D 570-98		0.3%
Solid Density (g/cm^3 lbs/in^3)	@ 25 °C (77 °F)	1.17	0.042

OPTICAL PROPERTIES		
MEASUREMENT	CONDITION	VALUE
Haze @ 0.495 mm (0.195 in)	ASTM D1003-13	4.3 %
Luminous Transmittance @ 0.495 mm (0.195 in)	ASTM D1003-13	87.2 %
Diffuse Transmittance @ 0.495 mm (0.195 in)	ASTM D1003-13	3.8 %
Index of Refraction	ASTM D542-14	1.508
L*		95.45
a*		-0.54
b*		1.36

Ordering information:

Part # 24046-902: 10 kg standard bottle for Viper si2™, SLA 5000 and SLA 7000 printers

Part # 24046-920: 10 kg cartridge for ProX® 800, iPro™ 8000, ProX 950 SLA printers



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Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

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