Accura® 25

PP Class

Stereolithography (SLA)

Easy and fast-to-process plastic to simulate the properties and aesthetics of polypropylene with high flexibility, durability and accuracy.

REPLACES MACHINED OR MOLDED WHITE POLYPROPYLENE PARTS

3D Systems Accura 25 for SLA is a versatile material producing prototypes, master patterns and short runs of end-use parts with the look and feel of polypropylene, replacing CNC machined or injection molded parts, faster and for a faction of the cost. Its low viscosity formulation enables fast build speeds and quick and easy part cleaning.

With an excellent combination of mechanical properties and aesthetics, Accura 25 material delivers reliable robust parts with outstanding flexibility, excellent shape memory, remarkable feature definition and accuracy.

Liquid Material

MEASUREMENT	CONDITION	VALUE
Viscosity	@ 30 °C (86 °F)	250 cps
Penetration Depth (Dp)		4.2 mils
Critical Exposure (Ec)		10.5 mJ/cm^2
Color		White
Liquid Density	@ 25 °C (77 °F)	1.13 g/cm^3 | 0.04 lbs/in^3

Printer Compatibility/Packaging:

ProJet® 6000/7000 SLA printers:	2L cartridge
ProX® 800/950, iPro™ 8000/9000 SLA printers:	10 kg cartridge
Viper si2™, SLA 5000 and SLA 7000 printers:	10 kg standard bottle

APPLICATIONS

- Functional assemblies and prototypes
  - Automotive styling parts
  - Consumer goods and electronic components
  - Snap fit assemblies
  - Product design
- Master patterns for RTV/silicone molding
- Short-run production of end-use parts
- Concept and marketing models

BENEFITS

- Excellent mechanical properties and dimensional stability
- Beautiful polypropylene-like parts
- Ease-of-use and fast processing
- Increased market opportunities for models
- Reliable and robust functional prototypes
- Suitable for master patterns
- Replace CNC machined or molded polypropylene parts

FEATURES

- Look and feel of molded polypropylene
- High flexibility with excellent shape retention
- Outstanding feature resolution and accuracy
- High production speed

3D SYSTEMS®

Accura® 25

PP Class

Stereolithography (SLA)

Easy and fast-to-process plastic to simulate the properties and aesthetics of polypropylene with high flexibility, durability and accuracy.

Post-Cured Material

MECHANICAL PROPERTIES		LARGE FRAME SLA PRINTERS		PROJET SLA PRINTERS[1]	
MEASUREMENT	CONDITION	METRIC	U.S.	METRIC	U.S.
Tensile Strength (MPa | PSI)	ASTM D 638	38	5540-5570	38	5510
Tensile Modulus (MPa | KSI)	ASTM D 638	1590-1660	230-240	1620	235
Elongation at Break	ASTM D 638	13-20 %		16 %	
Flexural Strength (MPa | PSI)	ASTM D 790	55-58	7960-8410	57	8270
Flexural Modulus (MPa | KSI)	ASTM D 790	1380-1660	200-240	1420	206
Impact Strength (J/m | Ft-lbs/in)	ASTM D 256	19-24	0.4	22	0.4
Heat Deflection Temperature @ 0.45 MPa (66 PSI) @ 1.82 MPa (264 PSI)	ASTM D 648	 58-63 °C 51-55 °C	 136-145 °F 124-131 °F	 61 °C 53 °C	 142 °F 127 °F
Coefficient of Thermal Expansion (CTE) (µm/m-°C | µin/in-°F)	ASTM E 831-93 TMA (T<Tg, 0-20 °C) TMA (T<Tg, 75-140 °C)	 107 151	 59.4 83.9	 NA NA	 NA NA
Glass Transition (Tg)	DMA, E"	72-74 °C	162-165 °F	60 °C	140 °F
Hardness, Shore D		80		80	
Solid Density (g/cm³ | lbs/in³)	@ 25 °C (77 °F)	1.19	0.043	1.19	0.043

[1] Accura 25 was also previously marketed under the VisiJet® SL Flex name for the ProJet 6000 and 7000 printers

3D SYSTEMS®

www.3dsystems.com