Accura® Xtreme™

Tough/Durable Class

Stereolithography (SLA)

Ultra-tough grey plastic with outstanding durablity, accuracy and aesthetics to replace CNC-machined polypropylene and ABS articles.

GET EXTREME PERFORMANCE AND DURABILITY

Fast and easy to process, the Accura Xtreme material offers physical properties that are close enough to durable end-use plastics like ABS and Polypropylene to make it ideal for functioning prototypes in demanding applications, as well as for short-run production projects.

Accura Xtreme is a grey plastic with the appearance of a final production part with outstanding durability, impact resistance, accuracy and a thermal resistance over 60 °C.

Liquid Material

MEASUREMENT	CONDITION	VALUE
Viscosity	@ 30 °C (86 °F)	225 cps
Penetration Depth (Dp)		4.1 mils
Critical Exposure (Ec)		11.7 mJ/cm^2
Color		Grey
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

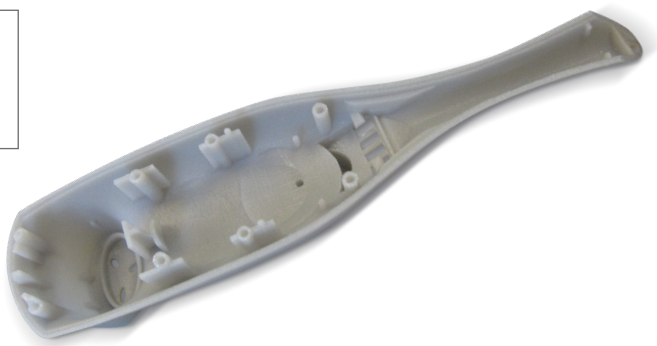
- Form, fit and function prototypes
- Durable and challenging assemblies
  - Snap fit assemblies
  - Tough enclosures
  - Consumer electronic components
- General purpose prototyping
- Master patterns for RTV/silicone molding
- Replace CNC machining of Polypropylene and ABS

BENEFITS

- Robust parts resisting breakage
- Handles challenging functional assemblies
- Withstands modest temperatures without distortion
- Increased application opportunities
- Aesthetics of molded parts
- Ease-of-use and fast processing

FEATURES

- Outstanding durability and impact resistance
- Look and feel of a durable molded plastic
- Excellent accuracy
- Good moisture and thermal resistance
- Low viscosity formulation



3D SYSTEMS®

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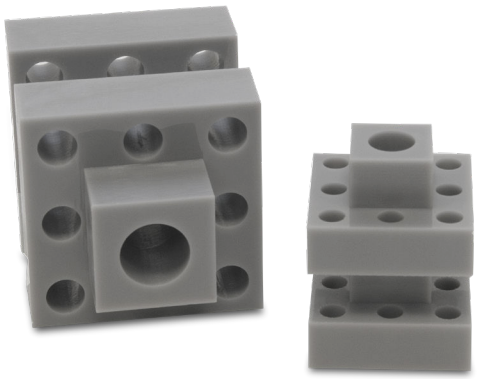
Post-Cured Material

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	38-44	5510-6380	41	5950
Tensile Modulus (MPa | KSI)	ASTM D 638	1790-1980	260-287	1890	274
Elongation at Break	ASTM D 638	14-22 %		18 %	
Flexural Strength (MPa | PSI)	ASTM D 790	52-71	7540-10300	62	8990
Flexural Modulus (MPa | KSI)	ASTM D 790	1520-2070	220-300	1850	268
Impact Strength (J/m | Ft-lbs/in)	ASTM D 256	35-52	0.7-1.0	44	0.8
Heat Deflection Temperature @ 0.45 MPa (66 PSI) @ 1.82 MPa (264 PSI)	ASTM D 648	 62 °C 54 °C	 144 °F 129 °F	 62 °C 54 °C	 144 °F 129 °F
Glass Transition (Tg)	DMA, E″	70-74 °C	158-165 °F	52 °C	126 °F
Hardness, Shore D		86		86	
Solid Density (g/cm³ | lbs/in³)	@ 25 °C (77 °F)	1.19	0.043	1.19	0.043

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



3D SYSTEMS®

www.3dsystems.com

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