

Accura[®] Xtreme Plastic



Functional prototype helmet used for durability testing

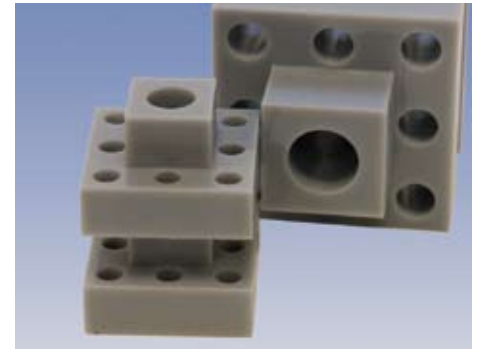
Get extreme performance and durability with Accura[®] Xtreme Plastic.

Applications

- Form, fit and function prototypes
- Durable Assemblies
 - Snap fit assemblies
 - Tough enclosures
 - Consumer electronic components
- Master patterns for RTV/Silicone molding
- Replace CNC machining of Polypropylene and ABS

Features

- Look and feel of a durable molded plastic
- Outstanding durability and impact resistance
- Thermal Resistance over 60° C
- Easy to use low viscosity formulation
- Fully developed and tested build styles



Benefits

- Increased application opportunities
- Suitable for assemblies and functional testing
- Prototypes withstand modest temperatures without distortion
- Faster recoating and build times
- Maximize reliability with no user R&D



Accura[®] Xtreme Plastic

For use with solid-state stereolithography (SLA[®]) systems



Technical Data

Liquid Material

Measurement	Condition	Value
Appearance		Grey
Liquid Density	@ 25 °C (77 °F)	1.13 g/cm ³
Solid Density	@ 25 °C (77 °F)	1.19 g/cm ³
Viscosity	@ 30 °C (86 °F)	250 - 300 cps
Penetration Depth (Dp) *		4.1 mils
Critical Exposure (Ec) *		11.7 mJ/cm ²
Tested Build Styles		EXACT™

Post-Cured Material

Measurement	Condition	Metric	U.S.
Tensile Strength	ASTM D 638	38 - 44 MPa	5510 - 6380 PSI
Tensile Modulus	ASTM D 638	1790 - 1980 MPa	260 - 287 KSI
Elongation at Break (%)	ASTM D 638	14 - 22 %	14 - 22 %
Flexural Strength	ASTM D 790	52-71 MPa	7540 - 10300 PSI
Flexural Modulus	ASTM D 790	1520 - 2070 MPa	220 - 300 KSI
Impact Strength (Notched Izod)	ASTM D 256	35 - 52 J/m	0.66 - 0.98 ft-lb/in
Heat Deflection Temperature	ASTM D 648		
	@ 66 PSI	62 °C	144 °F
	@ 264 PSI	54 °C	129 °F
Hardness, Shore D		86	86
Glass Transition (Tg)	DMA, E"	52 °C	126 °F

* Dp/Ec values are the same on all solid-state laser SLA[®] systems.



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