Midwest Prototyping

Accura® Xtreme Plastic

Information provided by 3D Systems

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 Poly propylene 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

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	57 - 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 Defletion Temperature	ASTM D 648 @ 66 PSI @ 264 PSI	 62˚C 54˚C	 144˚F 129˚F