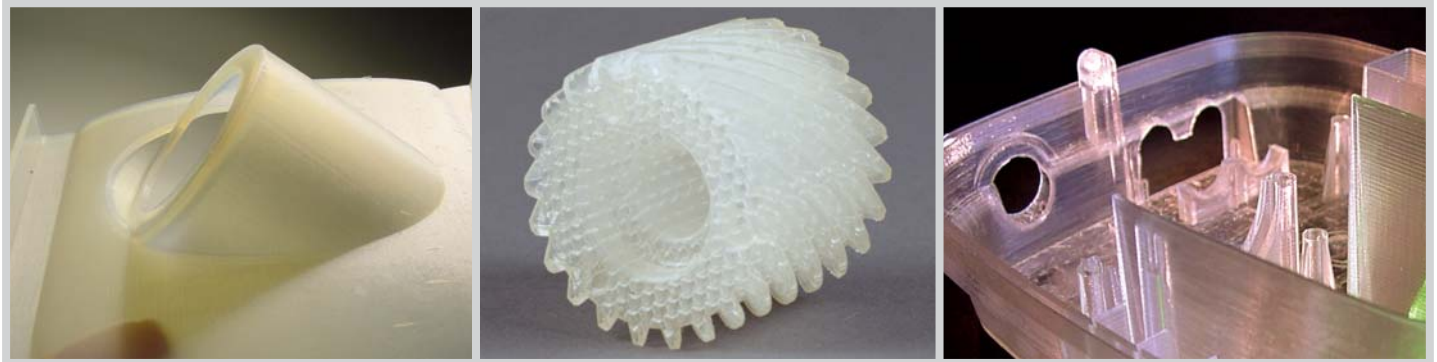




# Accura<sup>®</sup> 10 plastic

for use with solid-state stereolithography (SLA<sup>®</sup>) systems

**Value leading, accurate plastic for general-purpose prototypes & master patterns.**



## APPLICATIONS

- General use prototyping for many uses, including:
  - Enclosures, covers and cases
  - Cellular/mobile phones
  - Automotive and aerospace design
  - Computers and control displays
- Accurate master patterns for RTV/silicone molding
- QuickCast™ patterns for investment casting
- Models for fluid flow and visualization of internal structures

## FEATURES

- Value priced
- Outstanding accuracy
- Stiff and rigid
- Good humidity resistance
- High green strength
- Fully developed and tested build styles

## BENEFITS

- Lowers cost per part
- Reproduces CAD data faithfully
- Maximizes reliability with no user R&D
- Parts hold their shape well and resist deformation and distortion
- Parts retain properties well over time

# Accura<sup>®</sup> 10 plastic

For use with all solid-state stereolithography (SLA<sup>®</sup>) systems

## TECHNICAL DATA

### Liquid Material

MEASUREMENT	METHOD/CONDITION	VALUE
Appearance		Clear amber
Liquid Density	@ 25 °C (77 °F)	1.16 g/cm <sup>3</sup>
Solid Density	@ 25 °C (77 °F)	1.21 g/cm <sup>3</sup>
Viscosity	@ 30 °C (86 °F)	485 cps
Penetration Depth (Dp)	Viper/SLA 3500	6.3 mils
	iPro/SLA 5000	6.9 mils
	SLA 7000	6.8 mils
Critical Exposure (Ec)	Viper/SLA 3500	13.8 mJ/cm <sup>2</sup>
	iPro/SLA 5000	17.7 mJ/cm <sup>2</sup>
	SLA 7000	15.5 mJ/cm <sup>2</sup>
Tested Build Styles		FAST <sup>™</sup> , EXACT HR, QuickCast <sup>™</sup> and ThinLayer <sup>™</sup>

### Post-Cured Material (at 90 minute UV Curing)

MEASUREMENT	METHOD/CONDITION	METRIC	U.S.
Tensile Strength	ASTM D 638	62 - 76 MPa	9010 - 10940 PSI
Tensile Modulus	ASTM D 638	3048 - 3532 MPa	440 - 510 KSI
Elongation at Break (%)	ASTM D 638	3.1 - 5.6 %	
Flexural Strength	ASTM D 790	89 - 115 MPa	12900- 16600 PSI
Flexural Modulus	ASTM D 790	2827 - 3186 MPa	410 - 460 KSI
Impact Strength (Notched Izod)	ASTM D 256	14.9-27.7 J/m	0.28 - 0.52 ft- lb/in
Heat Deflection Temperature	ASTM D 648		
	@ 66 PSI	58 °C	136 °F
	@ 264 PSI	50 °C	122 °F
Hardness, Shore D	ASTM D 2240		86
Co-efficient of Thermal Expansion	ASTM E 831-93		
	TMA (T<Tg, 0 - 20 °C)	64 x 10 <sup>-6</sup> m/m °C	
	TMA (T>Tg, 90 - 150 °C)	170 x 10 <sup>-6</sup> m/m °C	
Glass Transition (Tg)	DMA, E''	62 °C	143 °F



**3D Systems Corporation**  
333 Three D Systems Circle  
Rock Hill, SC 29730 U.S.A.

Tel: 803.326.4080  
Toll-free: 800.889.2964  
Fax: 803.324.8810

moreinfo@3dsystems.com  
www.3dsystems.com  
NASDAQ: TDSC

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, 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.

© 2007 by 3D Systems, Inc. All rights reserved. Specifications subject to change without notice. EXACT, FAST, QuickCast, ThinLayer and Viper are trademarks, and the 3D logo, Accura and SLA are registered trademarks of 3D Systems, Inc.

TRANSFORM YOUR PRODUCTS

PN 70484 Issue Date - 06 Sep 07