

Accura[®] CastPro[™] Resin



3DSYSTEMS[™]



Applications

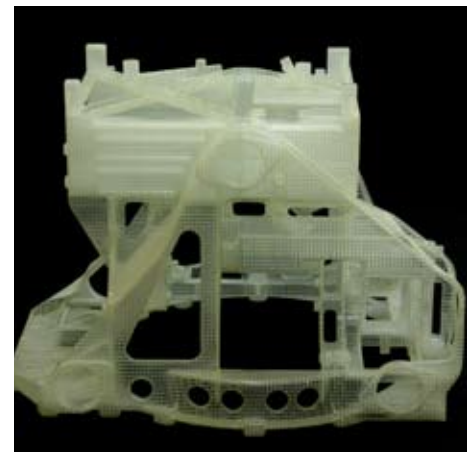
- Foundry applications
- Produce QuickCast[™] patterns
 - Production investment castings
 - Prototype investment castings
- Compatible with most metals

Features

- Low viscosity
- Humidity and moisture stable
- Improved thermal expansion characteristics
- Fast photospeed

Benefits

- Excellent drainage of thin walls
- Dimensionally stable patterns
- Higher accuracy patterns
- Improved burnout
- High casting yields



Accura[®] CastPro[™] Resin

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

Technical Data

Liquid Material

Measurement	Condition	Value
Appearance		Transparent/Pale Yellow
Liquid Density	@ 25 °C (77 °F)	1.08 g/cm ³ at 25°C
Solid Density	@ 25 °C (77 °F)	1.17 g/cm ³ at 25°C
Viscosity	@ 30 °C (86 °F)	240-260 cps
Penetration Depth (Dp)*		6.2 mils
Critical Exposure (Ec)*		8.7 mJ/cm ²

Post-Cured Material

Measurement	Condition	Metric	U.S.
Tensile Strength	ASTM D 638	52 - 53 MPa	7,540 - 7,690 PSI
Tensile Modulus	ASTM D 638	2,490 - 2,620 MPa	361,000 - 380,000 PSI
Elongation at Break (%)	ASTM D 638	4.1 - 8.3 %	4.1 - 8.3 %
Flexural Strength	ASTM D 790	82 - 84 MPa	11,890 - 12,180 PSI
Flexural Modulus	ASTM D 790	2,310 - 2,340 MPa	335,000- 339,000 PSI
Impact Strength (Izod Notched)	ASTM D 256	43 - 49.5 J/m	0.80 - 0.92 ft-lb/in
Heat Deflection Temperature	ASTM D 648 @ 66 PSI @ 264 PSI	51 °C 50 °C	124 °F 122 °F
Hardness, Shore D		85	85
Co-efficient of Thermal Expansion	ASTM E 831-93 0-40° C 50-140° C	102.9 µm/m-°C 160.2 µm/m-°C	57.2 µin/in-°F 89 µin/in-°F
Glass Transition (Tg)	DMA, E''	70° C	158° F
Water Absorption	ASTM D 570-98	0.33%	0.33%

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



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

Tel: +1 803.326.4080
Toll-free: 800.889.2964
Fax: +1 803.324.8810

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

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, 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.
© 2011 by 3D Systems, Inc. All rights reserved. Specifications subject to change without notice. CastPro and QuickCast are trademarks and the 3D logo, Accura and SLA are registered trademarks of 3D Systems, Inc.