



Accura[®] 60 plastic

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

Simulate the properties and appearance of polycarbonate with this clear, tough plastic.



Dive mask faceplate design is patented and courtesy of Kirby Morgan Dive Systems and Scicon Technologies

APPLICATIONS

- Tough functional prototypes
- Automotive design components
- Consumer electronics (cell phones etc.)
- Medical instruments, devices and labware
- Lighting components (lenses etc.)
- Fluid flow and visualization models
- Master patterns for urethane castings
- QuickCast™ patterns for investment casting
- Transparent assemblies
- Clear display models
- Concept and marketing models

FEATURES

- Durable and stiff
- High clarity
- Fast build speed
- Low viscosity formulation
- Humidity resistant parts
- Fully developed and tested build styles

BENEFITS

- Achieve the look and feel of polycarbonate
- View internal features and passages
- Increase system throughput
- Minimize part cleaning and finishing
- Realize extended part life
- Maximize reliability with no user R&D

Accura[®] 60 plastic

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

TECHNICAL DATA

Liquid Material

MEASUREMENT	CONDITION	VALUE:
Appearance		Clear
Liquid Density	@ 25 °C (77 °F)	1.13 g/cm ³
Solid Density	@ 25 °C (77 °F)	1.21 g/cm ³
Viscosity	@ 30 °C (86 °F)	150 - 180 cps
Penetration Depth (Dp) *		6.3 mils
Critical Exposure (Ec) *		7.6 mJ/cm ²
Tested Build Styles		EXACT™, FAST™, QuickCast™

Post-Cured Material

MEASUREMENT	CONDITION	VALUE:
Tensile Strength	ASTM D 638	58 - 68 MPa (8410 - 9860 PSI)
Tensile Modulus	ASTM D 638	2690 - 3100 MPa (390 - 450 KSI)
Elongation at Break (%)	ASTM D 638	5 - 13 %
Flexural Strength	ASTM D 790	87 - 101 MPa (12620 - 14650 PSI)
Flexural Modulus	ASTM D 790	2700 - 3000 MPa (392 - 435 KSI)
Impact Strength (Notched Izod)	ASTM D 256	15 - 25 J/m (0.3 - 0.5 ft-lb/in)
Heat Deflection Temperature	ASTM D 648 @ 66 PSI @ 264 PSI	53 - 55 °C (127 - 131 °F) 48 - 50 °C (118 - 122 °F)
Hardness, Shore D		86
Co-efficient of Thermal Expansion	ASTM E 831-93 TMA (T<T _g , 0 - 40 °C) TMA (T<T _g , 75 - 140 °C)	71 μm/m-°C 153 μm/m-°C
Glass Transition (T _g)	DMA, E''	58 °C (136 °F)

* Dp/Ec values are the same on all systems.



3D Systems Corporation
26081 Avenue Hall
Valencia, CA 91355 U.S.A.

Tel: 803.326.4080
Toll-free: 800.889.2964
Fax: 803.324.8810

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

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.

© 2006 by 3D Systems, Inc. All rights reserved. Specifications subject to change without notice. EXACT, FAST and QuickCast are trademarks, and the 3D logo, Accura and SLA are registered trademarks of 3D Systems, Inc.