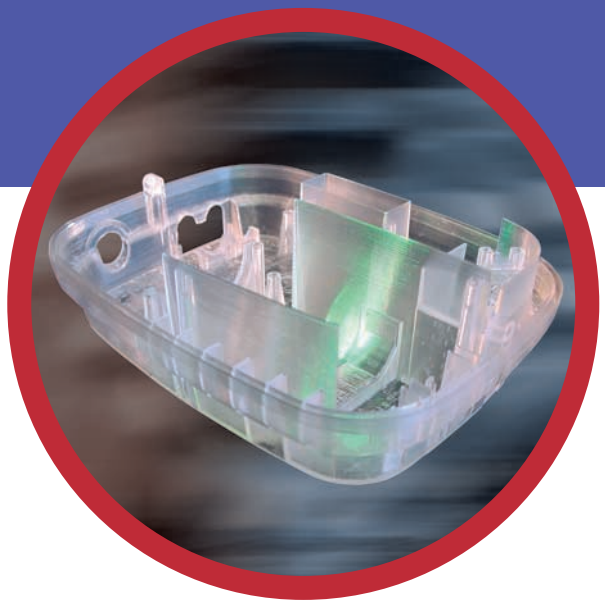
accuGen 100

An Accura SL Material from 3D Systems

Technology:	Stereolithography, SL
Material Class:	Liquid; Photo Reactive



Electronic housing

Higher productivity than ever before with our most versatile material which combines accuracy, green strength, and excellent surface finish

While combining accuracy, humidity resistance, and green strength, 3D Systems accuGen material will maximise your part building productivity like no other SL build material – without the need to manage the build chamber environment.

Enjoy fast, trouble-free, high-yield builds. With its excellent recoating characteristics, accuGen material is our fastest all-purpose material yet – up to 40 % faster than our previous supplied all-purpose materials.

Finish parts easily, without damage. accuGen material builds strong parts with easy-to-remove supports and a fine smooth surface especially on sidewalls; even thin walls are easily finished and machined. Industry-leading dimensional stability ensures accuracy and long lasting part usage.

Accelerate a wide variety of applications. Use accuGen material for prototype parts, master patterns, RTV moulding patterns, flow testing and more.

Work with the SL leaders. accuGen material is among the latest in 3D Systems ongoing efforts to meet our customers' rapid product development demands. As the inventors of the stereolithography process, we are committed to continually evolving it – and to partnering with select vendors – in ways that help you bring better products to market faster than ever before.

Use accuGen material for:

- Multi-purpose models
- RTV moulding patterns
- QuickCast patterns for investment casting
- Master patterns for secondary processes
- Prototype tooling

Benefits

- Fast build speed
- Superior dimensional stability
- Proven RTV capability
- Excellent sidewall quality
- Excellent green strength
- Thin-walled parts
- Fine feature resolution
- Build chamber environment independance

accuGen 100 material is a product in our Accura material line which consists of solid imaging materials for our stereolithography, laser sintering, and multi-jet modeling technologies.

3® SYSTEMS

the solid imaging company

accuGen 100 Material Typical Properties

for the SLA® 3500/5000/7000 and Viper si2 Systems

Liquid Material

Measurement	Condition	Solid state laser*
Appearance		Clear amber
Density	@ 25 °C	1.1 g/cm^3
Viscosity	@ 30 °C	500 cps
Penetration depth (Dp)*		0.11 mm (4.4 mils)
Critical exposure (Ec)*		10.8 mJ/cm^2
Tested build styles		QuickCast
		EXACT
		FAST
		ThinLayer (NA on Viper si2 system)
		EXACT HR (Viper si2 system only)

Post-Cured Material

Measurement	Condition	Solid state laser*
Tensile strength 90-minute UV post-cure	ASTM D 638	67 MPa
Elongation at break	ASTM D 638	4.6 %
Tensile Modulus	ASTM D 638	3030 MPa
Flexural strength	ASTM D 790	79 MPa
Flexural modulus	ASTM D 790	1930 MPa
Impact strength Notched Izod	ASTM D 256	17.1 J/m
Heat deflection temperature	ASTM D 648	
90-minute UV post-cure	@ 0.45 MPa	NA
	@ 1.84 MPa	NA
Glass transition, Tg	DMA, E" Peak	73 °C
Coefficient of thermal expansion	ASTM E 831–93	
90-minute UV post-cure	TMA (T<Tg)	72 x 10^{-6} m/m °C
	TMA (T>Tg)	176 x 10^{-6} m/m °C
Hardness, Shore D	ASTM D 2240	82

* Testing was performed on an SLA® 3500 system
NA = not available

MATERIAL UPGRADE PROGRAM:

Upgrade your existing material and take advantage of a substantial discount off the regular purchase price with 3D Systems Material Upgrade Program. For UK and Ireland please dial +44 (0) 1442 282600, for all other countries dial +49 (0) 6151 357 357.

the solid imaging company

3D Systems Europe Ltd.

Mark House
Mark Road
Hemel Hempstead, Herts.
HP2 7UA
tel +44 1442 282 600
fax +44 1442 282 601
email marketing@3dsystems.co.uk

3D Systems GmbH

Postfach 12 02 07
D-64239 Darmstadt
Germany
tel +49 61 51 / 3 57-0
fax +49 61 51 / 3 57-333
email info@3dsystems.com

www.3dsystems.com
Nasdaq: TDSC

France & Iberia
tele +33 1 69 35 17 17

Hong Kong
tel +852 2923 5077

Italy
tel +39 039 68 904 00

Japan
tel +81 3 5288 5951

USA
tel +1 661 295 5600 ext. 2882

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