

## 3D Systems Accura® accuGen™ Nd Plastic for SLA® Systems

Category : Polymer , Rapid Prototyping Polymer

### Material Notes:

Our most versatile material combines accuracy, green strength, and build chamber environment independence. For the SLA® Viper si2™, 3500, 5000 & 7000 systems. Typical Applications Multi-purpose models RTV mold patterns Form/Fit/Function QuickCast™ patterns for investment casting Master patterns for secondary processes Prototype tooling All information provided by 3D Systems.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3D-Systems-Accura-accuGen-Nd-Plastic-for-SLA-Systems.php](http://www.lookpolymers.com/polymer_3D-Systems-Accura-accuGen-Nd-Plastic-for-SLA-Systems.php)

| Physical Properties | Metric               | English                   | Comments |
|---------------------|----------------------|---------------------------|----------|
| Density             | 1.10 g/cc            | 0.0397 lb/in <sup>3</sup> | Liquid   |
|                     | @Temperature 25.0 °C | @Temperature 77.0 °F      |          |
| Viscosity           | 500 cP               | 500 cP                    |          |
|                     | @Temperature 30.0 °C | @Temperature 86.0 °F      |          |

| Mechanical Properties   | Metric     | English        | Comments                                       |
|-------------------------|------------|----------------|--|
| Hardness, Shore D       | 82         | 82             | 90 Minute UV Cure; SLA 3500 System; ASTM D2240 |
| Tensile Strength, Yield | 67.0 MPa   | 9720 psi       | 90 Minute UV Cure; SLA 3500 System; ASTM D638  |
| Elongation at Break     | 4.6 %      | 4.6 %          | 90 Minute UV Cure; SLA 3500 System; ASTM D638  |
| Tensile Modulus         | 3.03 GPa   | 439 ksi        | 90 Minute UV Cure; SLA 3500 System; ASTM D638  |
| Flexural Strength       | 79.0 MPa   | 11500 psi      | 90 Minute UV Cure; SLA 3500 System; ASTM D790  |
| Flexural Modulus        | 1.93 GPa   | 280 ksi        | ASTM D790                                      |
| Izod Impact, Notched    | 0.171 J/cm | 0.320 ft-lb/in | 90 Minute UV Cure; SLA 3500 System; ASTM D256  |
| Penetration             | 4.4        | 4.4            | mils   |

| Thermal Properties        | Metric       | English        | Comments   |
|---------------------------|--------------|----------------|--|
| CTE, linear               | 72.0 μm/m-°C | 40.0 μin/in-°F | T<Tg; 90 Minute UV Cure; SLA 3500 System; ASTM E831-93 |
|                           | 176 μm/m-°C  | 97.8 μin/in-°F | T>Tg; 90 Minute UV Cure; SLA 3500 System; ASTM E831-93 |
| Glass Transition Temp, Tg | 73.0 °C      | 163 °F         | 90 Minute UV Cure; SLA 3500 System; DMA, E"            |

| Descriptive Properties                  | Value   | Comments |
|---|---|----------|
| Critical Exposure (mJ/cm <sup>2</sup> ) | 10.8  |          |
| Tested Build Styles                     | QuickCast, EXACT™, ThinLayer™ (NA on Viper si2 system), EXACTHR (Viper si2 system only) |          |

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