

## 3D Systems Accura® Amethyst™ Plastic for Viper™ SLA® Systems

Category : Polymer , Rapid Prototyping Polymer

### Material Notes:

Optimized for the rapid and automated production of patterns and master molds for jewelry manufacturing. For use with Viper™ SLA® systems. Applications Patterns for use with low and high vulcanizing rubber molding High resolution concept models Features Outstanding accuracy Exceptional detail High thermal resistance Deep purple color Low ash formulation Benefits Parts are accurately produced in X, Y and Z Small details are faithfully reproduced Patterns are compatible with high temperature rubber molding operations Produces parts in a high contract color for easy identification Material can be burned out for direct casting All information provided by 3D Systems.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3D-Systems-Accura-Amethyst-Plastic-for-Viper-SLA-Systems.php](http://www.lookpolymers.com/polymer_3D-Systems-Accura-Amethyst-Plastic-for-Viper-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	
	1.23 g/cc	0.0444 lb/in <sup>3</sup>	Solid
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Viscosity	350 cP	350 cP	
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	
Tensile Strength, Yield	22.0 - 38.0 MPa	3190 - 5510 psi	ASTM D638
Elongation at Break	0.56 - 1.04 %	0.56 - 1.04 %	ASTM D638
Tensile Modulus	3.514 - 3.996 GPa	509.7 - 579.6 ksi	ASTM D638
Flexural Strength	87.0 - 125 MPa	12600 - 18100 psi	ASTM D790
Flexural Modulus	3.652 - 3.721 GPa	529.7 - 539.7 ksi	ASTM D790
Izod Impact, Notched	0.0900 - 0.120 J/cm	0.169 - 0.225 ft-lb/in	ASTM D256
Penetration	3.7	3.7	mils

Thermal Properties	Metric	English	Comments
CTE, linear	57.0 µm/m-°C	31.7 µin/in-°F	T<Tg; ASTM E831-93
	@Temperature 0.000 - 20.0 °C	@Temperature 32.0 - 68.0 °F	
	133 µm/m-°C	73.9 µin/in-°F	

Thermal Properties	Metric @ Temperature 90.0 - 150 °C	English @ Temperature 194 - 302 °F	Comments   E831-93
Deflection Temperature at 0.46 MPa (66 psi)	77.0 °C	171 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	ASTM D648
Glass Transition Temp, Tg	103 °C	217 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	Purple	
Critical Exposure (mJ/cm <sup>2</sup> )	14.4	
Tested Build Styles	FAST™, EXACT™, Exact HR	

## Contact Songhan Plastic Technology Co.,Ltd.

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