

Proto3000 Accura® Amethyst™ Material for use with 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. **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 Material can be burned out for direct casting **APPLICATIONS:** Patterns for use with low and high vulcanizing rubber molding High resolution concept models Information provided by Proto3000 for their prototyping engineering services.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Proto3000-Accura-Amethyst-Material-for-use-with-Viper-SLA-systems.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	Liquid
	1.23 g/cc	0.0444 lb/in ³	Solid
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 at Break	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

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	T>Tg; ASTM E831-93
	@Temperature 90.0 - 150 °C	@Temperature 194 - 302 °F	
Deflection Temperature at 0.46 MPa (66 psi)	77.0 °C	171 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.8 °C	144 °F	ASTM D648
Glass Transition Temp, Tg	103 °C	217 °F	DMA, E"

Descriptive Properties	Value	Comments
Appearance	Purple	
Critical Exposure (Ec)	14.4 mJ/cm ²	
Penetration Depth (Dp)	3.7 mils	

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