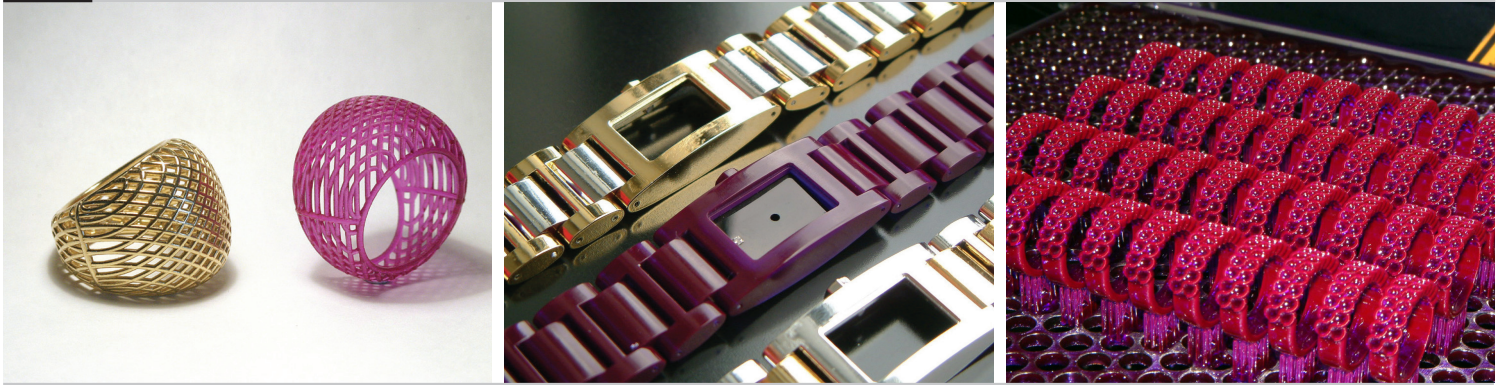


Accura[®] Amethyst

High-resolution material for accurate master patterns for jewelry manufacturing



Technical Data

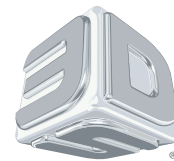
Post-Cured Material			
Measurement	Condition	Metric	U.S.
Tensile Strength (MPa/PSI)	ASTM D 638	22-38	
Tensile Modulus (MPa/KSI)	ASTM D 638	3514-3996	260-287
Elongation at Break	ASTM D 638	0.56 - 1.04 %	0.56 - 1.04 %
Flexural Strength (MPa/PSI)	ASTM D 790	87-125	7540-10300
Flexural Modulus (MPa/KSI)	ASTM D 790	3652-3721	220-300
Impact Strength (J/m /Ft-lbs/in)	ASTM D 256	9-12	0.66-0.98
Heat Deflection Temperature	ASTM D 648		
	@ 66 PSI	77 °C	170.6 °F
	@ 264 PSI	62 °C	143.6 °F
Coefficient of Thermal Expansion (CTE)	ASTM E 831-93		
	TMA (T<T _g , 0-20 °C)	57 (x10 ⁻⁶ m/m °C)	
	TMA (T<T _g , 90-150 °C)	133 (x10 ⁻⁶ m/m °C)	
Glass Transition (T _g)	DMA, E''	103 °C	217.4 °F
Shore D		87	87

Liquid Material

Measurement	Condition	Value
Viscosity	@ 30 °C (86 °F)	350 cps
Penetration Depth (D _p)		3.7 mils
Critical Exposure (E _c)		14.4 mJ/cm ²
Color		Purple
Solid Density	@ 25 °C (77 °F)	1.23 g/cm ³ at 25 °C
Liquid Density	@ 25 °C (77 °F)	1.1 g/cm ³ at 25 °C
Tested Build Styles		EXACT™, FAST™, Exact HR™

Features

- Accurate, high-resolution master patterns
- High resolution in X, Y, and Z dimensions
- Manufacture master patterns for jewelry and other microcasting applications



3DSYSTEMS[®]

3D Systems Corporation Tel: +1 803.326.3900
 333 Three D Systems Circle NYSE: DDD
 Rock Hill, SC 29730, USA www.3dsystems.com

MANUFACTURING THE FUTURE

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, 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.