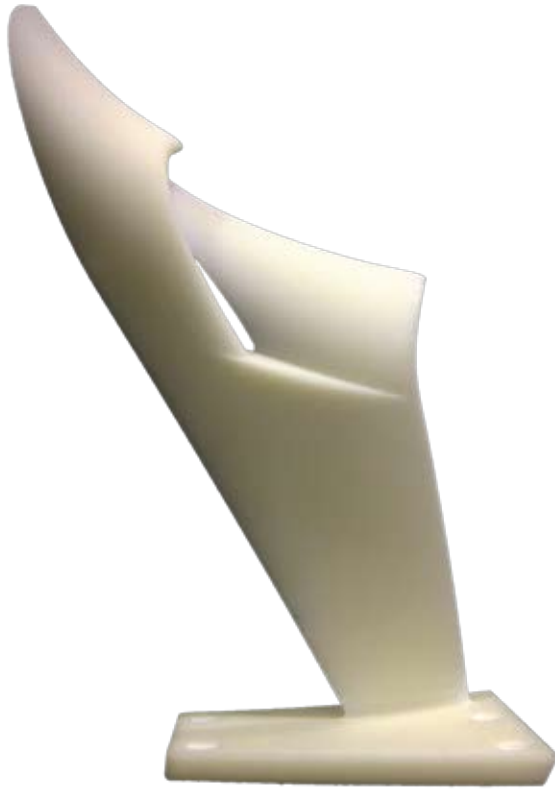


# Accura<sup>®</sup> CeraMAX<sup>™</sup> Composite

A Plastic Ceramic Composite



**PRELIMINARY**



## Applications

- Heat and wear resistant components
- Stiff/Rigid assemblies and prototypes
- Composite Ceramic-like components
- Aesthetic components for art and archival models
- Moisture stable components
- Automotive and aerospace applications

## Features

- A plastic-ceramic composite
- High thermal resistance
- Excellent abrasion resistance
- Moisture resistant
- Extremely rigid

## Benefits

- Aesthetically beautiful white parts
- Withstand temperatures of up to 250 °C
- Models that can withstand wear in aggressive applications
- Components can survive in adverse thermal environments
- Components can be plated
- Parts retain properties & dimensions for extended durations



# Accura<sup>®</sup> CeraMAX<sup>™</sup> Composite

For use with solid-state stereolithography (SLA<sup>®</sup>) Systems

**PRELIMINARY**

## Technical Data

### Liquid Material

Measurement	Condition	Value
Appearance		
Liquid Density	@ 25 °C (77 °F)	1.59 g/cm
Solid Density	@ 25 °C (77 °F)	1.62 g/cm <sup>3</sup>
Viscosity	@ 30 °C (86 °F)	1500 -2000 cps
Penetration Depth (Dp)*		5.7 mils
Critical Exposure (Ec)*		7.2 mJ/cm <sup>2</sup>

### Post-Cured Material

Measurement	Condition	Metric	U.S.
Tensile Strength	ASTM D 638	60 - 63 MPa	8,710 - 9,140 PSI
Tensile Modulus	ASTM D 638	9,090 - 9,310 MPa	1320 - 1350 KSI
Elongation at Break (%)	ASTM D 638	0.7 - 0.8 %	0.7 - 0.8 %
Flexural Strength	ASTM D 790	123 - 139 MPa	17.8 -20.2 KSI
Flexural Modulus	ASTM D 790	8,590 - 8,820 MPa	1250 - 1280 KSI
Impact Strength (Izod Notched)	ASTM D 256	12.1 - 13.5 J/m	0.23 - 0.25 ft-lb/in
Hardness, Shore D		89	89

\* Dp/Ec values are the same on all solid-state laser SLA<sup>®</sup> Systems.



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