

# Accura<sup>®</sup> 25 Plastic



Accura<sup>®</sup> 25 Plastic produces durable prototypes that are ideally suited for automotive design verification and functional testing.

Simulate the properties and aesthetics of polypropylene and ABS with this accurate and flexible material.

## Applications

- Functional components for assemblies and mock-ups for:
  - Automotive styling parts — trim, fascia, and other components
  - Consumer electronic components
  - Toys
  - Snap fit assemblies
- Master patterns for RTV/silicone molding
- Replace CNC machining of polypropylene and ABS to produce short-run plastic parts
- Simulate injection molded parts
- Concept and marketing models

## Features

- Look and feel of molded polypropylene
- High flexibility with excellent shape retention
- Outstanding feature resolution and accuracy
- High production speed
- Fully developed and tested build styles



Automotive styling part.

## Benefits

- Increased market opportunities for models
- Reliable and robust functional prototypes
- Suitable for master patterns
- More parts and better system utilization
- Maximize reliability with no user R&D



Accura<sup>®</sup> 25 Plastic has high flexibility, while retaining the original shape.

# Accura<sup>®</sup> 25 Plastic

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

## Technical Data

### Liquid Material

Measurement	Condition	Value
Appearance		White
Liquid Density	@ 25 °C (77 °F)	1.13 g/cm <sup>3</sup>
Solid Density	@ 25 °C (77 °F)	1.19 g/cm <sup>3</sup>
Viscosity	@ 30 °C (86 °F)	250 cps
Penetration Depth (Dp)*		4.2 mils
Critical Exposure(Ec)*		10.5 mJ/cm <sup>2</sup>
Tested Build Styles		EXACT™, FAST™, EXACT™ HR



\* Dp/Ec values are the same on all systems.

### Post-Cured Material

Measurement	Condition	Metric	U.S.
Tensile Strength	ASTM D 638	38 MPa	5,540 - 5,570 PSI
Tensile Modulus	ASTM D 638	1590-1660 MPa	230 - 240 KSI
Elongation at Break (%)	ASTM D 638	13 - 20 %	13 - 20 %
Flexural Strength	ASTM D 790	55 - 58 MPa	7,960 - 8,410 PSI
Flexural Modulus	ASTM D 790	1,380 - 1,660 MPa	200 - 240 KSI
Impact Strength (Notched Izod)	ASTM D 256	19 - 24 J/m	0.4 ft-lb/in
Heat Deflection Temperature	ASTM D 648 @ 66 PSI @ 264 PSI	58 - 63 °C 51 - 55 °C	136 - 145 °F 124 - 131 °F
Hardness, Shore D		80	80
Co-Efficient of Thermal Expansion	ASTM E 831-93 TMA (T<Tg, 0-20 °C) TMA (T<Tg, 75-140 °C)	107 x 10 <sup>-6</sup> m/m-°C 151 x 10 <sup>-6</sup> m/m-°C	
Glass Transition (Tg)	DMA, E''	60 °C	140 °F

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