

## Accura® 25 Plastic

Information provided by 3D Systems

### 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

### 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



### Post-Cured Material

Measurement	Condition	Metric	U.S.
Tensile Strength	ASTM D 638	38 MPa	5540 - 5570 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	7960 - 8410 KSI
Flexural Modulus	ASTM D 790	1380 - 1660 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	58 - 63°C	136 - 145°F
	@ 264 PSI	51 - 55°C	124 - 131°F
Hardness, Shore D		80	80
Co-Efficient of Thermal Expansion	ASTM E 831-93		
	TMA (T<Tg, 0-20°C)	107 (x10-6 m/m°C)	
	TMA (T<Tg, 75-140°C)	151 (x10-6 m/m°C)	
Glass Transition (Tg)	DMA,E"	60°C	140°F