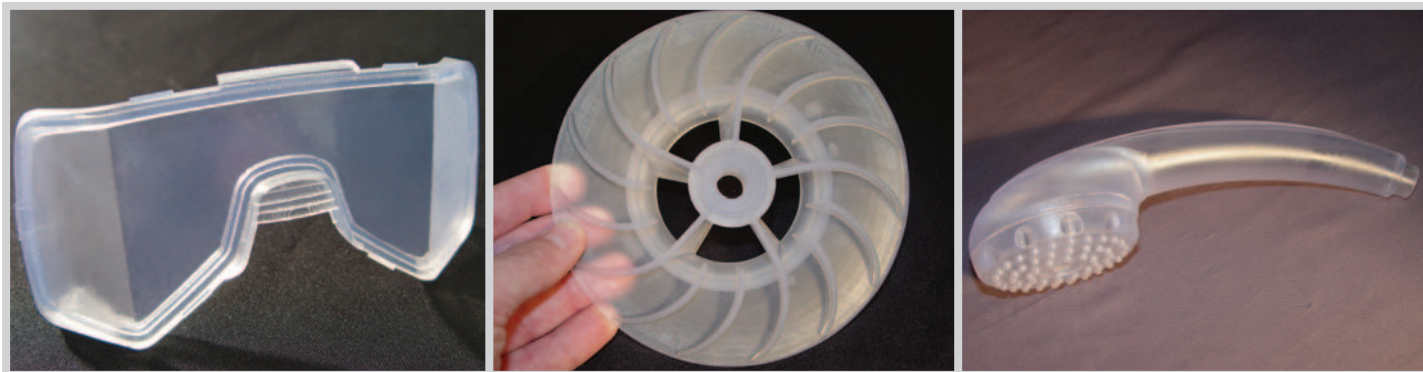




Accura[®] 60 plastic

for use with solid-state stereolithography (SLA[®]) systems

Simulate the properties and appearance of polycarbonate with this clear, tough plastic.



Dive mask faceplate design is patented and courtesy of Kirby Morgan Dive Systems and Scicon Technologies

APPLICATIONS

- Tough functional prototypes
- Automotive design components
- Consumer electronics (cell phones etc.)
- Medical instruments, devices and labware
- Lighting components (lenses etc.)
- Fluid flow and visualization models
- Master patterns for urethane castings
- QuickCast™ patterns for investment casting
- Transparent assemblies
- Clear display models
- Concept and marketing models

FEATURES

- Durable and stiff
- High clarity
- Fast build speed
- Low viscosity formulation
- Humidity resistant parts
- Fully developed and tested build styles

BENEFITS

- Achieve the look and feel of polycarbonate
- View internal features and passages
- Increase system throughput
- Minimize part cleaning and finishing
- Realize extended part life
- Maximize reliability with no user R&D

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TECHNICAL DATA

Liquid Material

MEASUREMENT	CONDITION	VALUE:
Appearance		Clear
Liquid Density	@ 25 °C (77 °F)	1.13 g/cm ³
Solid Density	@ 25 °C (77 °F)	1.21 g/cm ³
Viscosity	@ 30 °C (86 °F)	150 - 180 cps
Penetration Depth (Dp) [*]		6.3 mils
Critical Exposure (Ec) [*]		7.6 mJ/cm ²
Tested Build Styles		EXACT™, FAST™, QuickCast™

Post-Cured Material

MEASUREMENT	CONDITION	VALUE:
Tensile Strength	ASTM D 638	58 - 68 MPa (8410 - 9860 PSI)
Tensile Modulus	ASTM D 638	2690 - 3100 MPa (390 - 450 KSI)
Elongation at Break (%)	ASTM D 638	5 - 13 %
Flexural Strength	ASTM D 790	87 - 101 MPa (12620 - 14650 PSI)
Flexural Modulus	ASTM D 790	2700 - 3000 MPa (392 - 435 KSI)
Impact Strength (Notched Izod)	ASTM D 256	15 - 25 J/m (0.3 - 0.5 ft-lb/in)
Heat Deflection Temperature	ASTM D 648 @ 66 PSI @ 264 PSI	53 - 55 °C (127 - 131 °F) 48 - 50 °C (118 - 122 °F)
Hardness, Shore D		86
Co-efficient of Thermal Expansion	ASTM E 831-93 TMA (T<T _g , 0 - 40 °C) TMA (T<T _g , 75 - 140 °C)	71 μm/m-°C 153 μm/m-°C
Glass Transition (T _g)	DMA, E''	58 °C (136 °F)

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



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