

US-2 - Specifications

Description

This casting material is a high impact urethane for producing prototypes. It produces parts with very high Izod impact strength with the added benefit of excellent fire-retardant characteristics. It has very low viscosity which allows it to fill thin, complicated mold sections quite rapidly, producing void free parts routinely. It also has very high tensile and flexural strength, so it has outstanding built in toughness.

Applications

- Commercial product testing
- Functional assembly
- Public surveys
- Field testing
- Visual evaluation
- Aesthetic evaluation

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Mechanical Properties

Hardness ASTM D-2240	85 Shore D
Flexural modulus ASTM D-790	424,275 psi
Flexural strength ASTM D-790	15,445 psi
Tensile modulus ASTM D-638	381,675 psi
Tensile strength ASTM D-638	10,650 psi
Elongation at break ASTM D-638	24.5%
Impact strength, Notched Izod ASTM D-256	1.6 ft.- lb./in.
Compressive modulus ASTM D-695	413,816 psi
Compressive strength ASTM D-695	15,360 psi
Heat deflection temperature ASTM D-648 @66 psi	179°F
Density ASTM D-792	0.0422 lb./in.3
Specific gravity ASTM D-1475	1.17 g/cm3

