

## PP-1 - Specifications

### Description

This casting material is a tough, impact resistant polyurethane formulated for vacuum casting and short mold cycle times. It simulates high impact Thermoplastic Olefin (TPO) materials for a range of prototyping and production applications. It can be easily colored with a wide range of colors.

### Applications

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

# PP-1

### Cured Properties

	Cure 1: 1 hour @ 150°F + 24 hours @77°F	Cure 2: 1 hour @ 150°F + 7 days @ 77°F
<b>Hardness</b> ASTM D-2240	65 ± 5 Shore D	70 ± 5 Shore D
<b>Flexural modulus</b> ASTM D-790	85,000 psi	115,000 psi
<b>Flexural strength, Ultimate</b> ASTM D-790	4,000 psi	5,000 psi
<b>Tensile strength</b> ASTM D-638	4,000 psi	5,500 psi
<b>Elongation at break</b> ASTM D-638	70%	55%
<b>Impact strength, Notched Izod</b> ASTM D-256	7.0 ft.-lb./in.	6.0 ft.-lb./in.
<b>Heat deflection temperature</b> ASTM D-648 @66 psi	212°F	250°F
<b>Heat deflection temperature</b> ASTM D-648 @264 psi	181°F	207°F
<b>Specific gravity</b>	1.17 g/cm3	1.17 g/cm3
<b>Linear shrink</b> ASTM D-2566	0.005	0.005

