

Ultralloy™ 910C

Thermoplastic

Hapco Inc.

Message:

The ULTRALLOY series of liquid molding compounds are tough, fast cycling, low cost, and easy to use. ULTRALLOY is designed to be used with Liquid Molding, open casting, pressure casting, or vacuum casting processes. ULTRALLOY can be used with silicone, epoxy, urethane, polyester, or aluminum molds. Low cost molds and fast cycle times are two key attributes of ULTRALLOY.

ULTRALLOY is available in several series. Each series has different products with different physical properties. Properties such as elongation, tensile strength, and modulus of elasticity can be selected to mold parts with the correct physical characteristics. Choose the ULTRALLOY material with the exact properties you need, or that are required to meet specifications.

ULTRALLOY is available in opaque white, clear/transparent, and in fire retardant (UL 94V-0) versions. Custom coloring can be achieved by pigmenting ULTRALLOY with Hapco's easy to mix color dispersions. Both opaque and translucent color dispersions are available.

ULTRALLOY can be molded in inexpensive molds, reducing total part cost, for short run programs.

ULTRALLOY is made for prototypes and short runs of plastic parts. ULTRALLOY fills the need for low cost, high performance parts, in volumes less than 10,000 parts per year.

ULTRALLOY 900 CLEAR SERIES

A series of Liquid Molding Compounds with Underwriters Laboratory 94V-O Flammability rating. The 900 Series properties are similar to the Ultralloy 800 Series. Tensile strengths from 5900 psi to 11,700 psi and heat distortion temperature up to 118°C (244°F) are available. Like the Ultralloy 800 Series, the 900 Series products are fast, providing a high volume of parts per day.

| General Information | | | |
|------------------------------|---------------------------|-------------------|-------------|
| Features | Fast Cure | | |
| | Fast Molding Cycle | | |
| | Flame Retardant | | |
| | Good Toughness | | |
| | High Heat Resistance | | |
| | Low Viscosity | | |
| Uses | Agricultural Applications | | |
| | Housings | | |
| | Prototyping | | |
| | Thin-walled Parts | | |
| | Toys | | |
| Appearance | Clear Amber | | |
| Forms | Liquid | | |
| Processing Method | Casting | | |
| | Vacuum Casting | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.20 | g/cm ³ | ASTM D4669 |
| Molding Shrinkage - Flow | 0.20 to 0.80 | % | ASTM D2566 |
| Weight - per cubic inch | 20 | g | |
| Gel Time ¹ (25°C) | 45.0 | sec | ASTM D2971 |
| Hardness | Nominal Value | Unit | Test Method |

| Durometer Hardness (Shore D) | 87 | | ASTM D2240 |
|--|--|------|-----------------|
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 2410 | MPa | ASTM D638 |
| Tensile Strength | 73.1 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.5 | % | ASTM D638 |
| Flexural Modulus | 2690 | MPa | ASTM D790 |
| Flexural Strength | 93.8 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 18 | J/m | ASTM D256 |
| Unnotched Izod Impact | 85 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 118 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | V-0 | | UL 94 |
| Thermoset | Nominal Value | Unit | Test Method |
| Thermoset Components | | | |
| Part A | Mix Ratio by Weight: 100, Mix Ratio by Volume: 100 | | |
| Part B | Mix Ratio by Weight: 95, Mix Ratio by Volume: 100 | | |
| Thermoset Mix Viscosity ² (25°C) | 700 | cP | ASTM D4878 |
| Demold Time (21°C) | 8.0 | min | Internal Method |
| NOTE | | | |
| 1. | 100 g | | |
| 2. | Range: 600 to 800 | | |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT