Ultralloy™ 910

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 SERIES
A series of Liquid Molding Compounds with Underwriters Laboratory 94V-O Flammability rating. Tensile strengths from 6,400 psi to 11,700 psi and heat distortion temperature up to 122°C (252°F) are available. Like the Ultralloy 800 Series, the 900 Series products are fast, providing a high volume of parts per day.

General Information	
UL YellowCard	E151367-223764
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/cm³	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	2510	MPa	ASTM D638
Tensile Strength	80.7	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	2770	MPa	ASTM D790
Flexural Strength	100	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	17	J/m	ASTM D256
Unnotched Izod Impact	80	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	122	°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 (25°C)	900	cP	ASTM D4878
Demold Time (21°C)	6.0	min	Internal Method
NOTE			
1.	100 g		

Recommended distributors for this material

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