Ultralloy™ 203

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 200 SERIES
A series of general purpose Liquid Molding Compounds that do not change color and remain clear/ light yellow when cured. Ultralloy 200 Series are ideal for in mold coloring of parts. They can be easily pigmented and the color remains the same in the cured or liquid state. Tensile strengths from 10,300 psi to 11,800 psi are available.

General Information	
Features	Fast Molding Cycle Good Colorability Good Toughness 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	1.10	g/cm³	ASTM D4669
Molding Shrinkage - Flow	0.10 to 0.40	%	ASTM D2566
Weight - per cubic inch	18	g	
Gel Time [1] (25°C)	8.5	min	ASTM D2971
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus	1800	MPa	ASTM D638
Tensile Strength	81.4	MPa	ASTM D638
Tensile Elongation (Break)	6.3	%	ASTM D638
Flexural Modulus	2920	MPa	ASTM D790
Flexural Strength	109	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	30	J/m	ASTM D256
Unnotched Izod Impact	230	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	80.0	°C	ASTM D648
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: 100, Mix Ratio by Volume: 120		
Thermoset Mix Viscosity [2] (25°C)	300	cP	ASTM D4878
Demold Time (21°C)	45 to 90	min	Internal Method
NOTE			
1.	100 g		
2.	Range: 250 to 350		

Recommended distributors for this material

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