

Ultralloy™ 3310

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 3300 SERIES

A series of flame retardant, (UL 94V-0) high strength, systems with excellent physical properties. This series can be pressure or vacuum cast. Underwriter Labs Flame Retardant 94V-0 @ 2.5 mm thickness. This series is available in a 2, 4, 14, and 28 minute gel time.

General Information	
UL YellowCard	E151367-223763
Features	Fast Molding Cycle
	Flame Retardant
	Good Toughness
	High Strength
	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	0.11 to 0.30	%	ASTM D2566
Weight - per cubic inch	20	g	
Gel Time ¹ (25°C)	14.0	min	ASTM D2971
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3180	MPa	ASTM D638
Tensile Strength	86.9	MPa	ASTM D638
Tensile Elongation (Break)	7.7	%	ASTM D638
Flexural Modulus	2170	MPa	ASTM D790
Flexural Strength	114	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	27	J/m	ASTM D256
Unnotched Izod Impact	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	86.0	°C	
1.8 MPa, Unannealed	78.0	°C	
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)	300 to 500	cP	ASTM D4878
Demold Time (21°C)	360 to 720	min	Internal Method
NOTE			
1.	100 g		
2.	Range: 300 to 500		

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

