

Ultralane[®] 750A/B

SHORE 52A POLYURETHANE CASTING SYSTEM

Ultralane[®] 750A/B is an easy to use, low viscosity casting system that readily pickup mold details and releases air bubbles. It contains no MOCA or TDI yet develops high tensile strength and tear strengths. It is excellent for making flexible parts, pads, gaskets, & molds. The Ultralane 750 system produces a natural light beige color and is easy to pigment or dye prior to curing to achieve a wide range of colors and visual effects.

The Ultralane[®] 750A/B system is available in custom colors on request and can be supplied with UV stabilizers or anti-oxidants added to protect against extended exposure to UV light or high temperatures in use. Many other custom variations are available to meet your requirements. Please contact us to discuss your application if you would like to receive samples of a custom color or to discuss the development of a custom variant that would be suitable for your application.

SUGGESTED APPLICATIONS:

- Alternative to RTV silicone for low costs molds – especially for parts with deep undercuts or complex surfaces
- Making resilient/flexible parts, pads, gaskets, etc.
- Electric Encapsulation of stress-sensitive components

HANDLING PROPERTIES	VALUE	TEST METHOD
<u>Ultralane 750A (resin)</u>		
Visual Appearance	Clear Amber liquid	
Density, Part A	1.2 g/cm ³	ASTM E-201
Viscosity, Part A, at 25°C	30 - 100 cps	ASTM D-2393
Flash Point	>93°C	ASTM D-92
<u>Ultralane 750B (hardener)</u>		
Visual Appearance	Milky-white Liquid	
Density,	1.05 g/cm ³	ASTM E-201
Viscosity, Part B, at 25°C	1,300 cps	ASTM D-2393
Flash Point	>93°C	ASTM D-92
Mixed Viscosity @ 25°C	1,300 cps	ASTM D-2393
Mix Ratio by weight and volume:	10A : 100B by weight or volume	
Pot life, 4oz / 150 gram mass	28 minutes	
Demolding time:	12 -16 hours at room temperature or allow to gel then cure for 3 hours at 150°F or 2 hours at 80°C. Allow to cool prior to demolding.	
Cure Schedules:	24 hours at 25°C (Full properties may take up to 7 days at room temperature) or gel at 25°C for 2 hours + 16 hours at 80°C.	

CURED PROPERTIES	VALUE	VALUE	TEST METHOD
	ROOM TEMP. CURE	HEAT CURE	
Density	65 lb./ft ³ (1.05 g/cm ³)	65 lb./ft ³ (1.05 g/cm ³)	ASTMD-792
Hardness, Shore A	52±7	52±7	ASTM D-2240
Ultimate Tensile Strength	1,260 psi	1,170 psi	ASTM D-638
Tensile Elongation	420%	357%	ASTM D-638
Tear Strength	112 ppi	113 ppi	ASTM D-624
Linear Shrinkage during cure*	0.001 in/in	0.007 in/in	ASTM D-624

* Molds are half round steel, 10 inches long, 0.875 inches deep

PROCESSING AND APPLICATION INSTRUCTIONS :

The Ultralane 750B component may settle during storage or transportation. Shaking or stirring the container of 750B prior to use will ensure that the material is uniform.

To use, weigh Part A and Part B into a clean mixing container. Mixing containers should preferably be made of polypropylene, polyethylene, glass, or non-corroding metal. (Stainless steel, aluminum, etc.). Always use weighing equipment having accuracy that is ±1% or less of the smallest quantity that you will be weighing. Blend Parts A & B thoroughly using a spatula or stirring stick for at least 2 minutes, using a kneading motion. Scrape the bottom and sides of the mixing container carefully and frequently to produce a uniform mixture.

PACKAGING AVAILABLE:

This product is available in Quart, gallon, 5-gallon pails, and drums.

It can be supplied in dual syringe cartridges of approximately 50ml or 250ml. The dual syringe cartridges eliminate the need for hand mixing and allow for almost air free injection into your mold.

Please call use with any special packaging requests or for information on custom kitting.

STORAGE GUIDELINES:

Store these materials in a clean, cool and dry environment in their tightly closed original containers. Protect from extended exposure to temperatures below 15°C (59°F). Crystallization may occur if the material is exposed to cold for extend periods. If this occurs, heat the entire container for 4 hours at 70°C to re-liquefy the material. Allow to cool to ambient temperature prior to using. Also protect the Ultralane 750A&B from exposure to moisture or high humidity. Tightly re-seal containers after use. If the recommended storage conditions are observed the products will have a minimum shelf-life of 12 months from the date of shipment.

HANDLING PRECAUTIONS:

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

PERSONAL HYGIENE:

Ultralane 750A

WARNING! Can cause skin irritation, eye irritation, allergic respiratory reaction, and allergic skin reaction. Can be Harmful if inhaled. May cause eye & skin irritation. Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not in use. Use only with adequate ventilation. Do not take internally.

Ultralane 750B

CAUTION! In accord with good industrial practice, handle with due care. Could cause eye, skin, and respiratory irritation. Prolonged or repeated skin contact or inhalation of vapors may cause allergic skin or respiratory reactions. Harmful if inhaled or swallowed. Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not in use. Use only with adequate ventilation.

FIRST AID

In case of contact:

Skin – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather.

Eyes – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention.

Inhalation - Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician.

Ingestion - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

DISCLAIMER:

IMPORTANT: The following supersedes Buyer's documents. **SELLER / MANUFACTURER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller / Manufacturer be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results presented are based on controlled or laboratory work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended

Specialty Polymers & Services, Inc. (SP&S)

27822 Fremont Court

Valencia, CA 91355

www.spolymers.com

Tel: 661-294-1790

Fax: 661-294-0640

info@spolymers.com