

## Ultralane 799-10A/B

### Shore 000 Polyester Gel Sealant & Potting System

The Ultralane 799-10A/B is a low viscosity, flowable, highly flexible, Shore 000 sealant and potting system that cure into a tacky solid with excellent moisture and environmental resistance. The system has a low modulus and excellent dielectric properties, which makes it ideal for potting stress sensitive electronics. It is very elastic and conforms to complex surfaces and readily snaps back to its original shape if stretched or deformed. It is excellent for use as a sealant and will provide a good bond to surfaces it is pressed against even when fully cured.

#### APPLICATIONS & BENEFITS:

- Potting & impregnation of low voltage electronic devices
- Sealing of filters and other parts
- Isocyanate free
- RoHS and REACH Compliant

<b>HANDLING PROPERTIES</b>		<u>VALUE</u>	<u>TEST METHOD</u>
Visual Appearance, Part A		Clear to light yellow liquid	
Density, Part A		~1.00 g/cm <sup>3</sup>	ASTM E-201
Visual Appearance, Part B		Blue liquid	
Density, Part B		~1.00 g/cm <sup>3</sup>	ASTM E-201
Density Mixed, g/cm <sup>3</sup>		1.00 g/cm <sup>3</sup>	ASTM E-201
Viscosity Mixed, at 25°C		300 - 600 cps	ASTM D-2393
Mix Ratios:		1A:1B by weight	
<u>Processing Temp.</u>	<u>Gel time</u>	<u>Initial Cure</u>	<u>Full Cure time</u>
25°C	35 - 50 minutes	24 hours	3-7 days

<b>PHYSICAL PROPERTIES</b>		<u>VALUE</u>	<u>TEST METHOD</u>
Color		Blue	Visual
Shore 000 Hardness,		10 ±5	ASTM D-2240
Tensile Strength, psi		>80 psi	ASTM D-638
Tensile Elongation at break		>200%	ASTM D-638
Glass Transition Temp. (Tg)		<-69°C	ASTM D-648
Dielectric Strength at 3 mil		>1500 V/mil	Mil-I-46058C
Insulation Resistance, ohms		>1.0 x 10 <sup>15</sup> ohms	Mil-I-46058C
Dielectric Constant at 25°C			ASTM D-150
at 1 k Hz / 100 KHz		2.5 / 3.0	
Dielectric Constant at 100°C			ASTM D-150
at 1 k Hz / 100 KHz		3.6 / 3.2	
Loss tangent at 25°C			ASTM D-150
at 1 k Hz / 100 KHz		0.022 / 0.025	
Loss tangent at 100°C			ASTM D-150
at 1 k Hz / 100 KHz		0.024 / 0.027	
Thermal Conductivity		0.18 W/mK	

**NOTE :** Values are based on laboratory or average production results – not for specification purposes.

## **SUGGESTED PROCESSING GUIDELINES:**

To use, weigh Part A and Part B in the recommended ratio as accurately as possible into a clean mixing container. Mixing containers should preferably be made of polyethylene, glass, or non-corroding metal. (Stainless steel, aluminum, etc.). Always use weighing equipment having accuracy that is  $\pm 1\%$  or less of the smallest quantity that you will be weighing. Blend Part A & B thoroughly using a spatula or stirring stick for at least 2-3 minutes using a kneading motion. Scrape the bottom and sides of the mixing container carefully and frequently to produce a uniform mixture. Vacuum de-gassing after mixing is helpful to remove air. Vacuum degassed material will produce the strongest possible bonds and provide the best insulation values...

Apply the mixed material to clean, dry surfaces. Suitable application methods include by brush, by spatula, from a syringe, etc.

## **STORAGE GUIDELINES:**

Store this material in a clean, cool and dry environment in its tightly closed original container. Tightly re-seal containers after use and blanket with dry nitrogen or another dry inert gas if available. 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.

## **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

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