

Technical Data:

Issued: Feb.2024

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U 992 - preliminary

High dielectric strength polyurethane Compound

Product Description

U 992 is a low viscosity polyurethane compound designed for potting, sealing, and encapsulation of electronic components.

U 992 is a self-extinguishing and UL HB compliance.

Features & Benefits

- High dielectric strength.
- Room temperature curing.
- Self-extinguishing UL-HB Compliance.
- Suitable for manual and automatic mixing
- Low viscosity

Applications

Electrical and electronic potting and encapsulation.

Typical Uncured Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

	U 992 (Base)	Uc 138 (Hardener)
Appearance/Color	Cream/Black	yellowish liquid
Density, g/cm³	0.99	1.25
Mix Density, g/cm³	1.05	
Viscosity @25°C, mPa*s	900 - 1100	150 - 250
Mix Viscosity@ 25°C, mPa*s	650-800	
Mix Ratio, (by weight)	100 : 33	
Gel-time, 100g @ 25°C, min	30 - 55	
Recommended Curing Schedule	1 week @ RT or 36hr@RT + 9 hr@80	

**Instructions for use
(Manual mixing):**

Stir compound U 992 thoroughly in the original container before use.

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Typical Mechanical Properties (Cured)*:	Hardness , ASTM D 2240, Shore A	70 - 80
	Tensile strength , ASTM D 638, Mpa.	3 - 4
	Elongation , ASTM D 638, (%).	50 - 80
Typical Electrical Properties (Cured)*:		
	Dielectric breakdown strength , ASTM D149, Kv/mm.	25
	Volume resistivity , ASTM D257, ohm-cm.	2.0E+15
Other Properties (Cured)*:	Surface resistivity , ASTM D257, ohm.	1.0E+16
	Water intake , ASTM D 570,(%).	7 days: < 0.33

*) all data obtained after 7 days at room temperature

Storage The shelf life of the U 992 is 9 months at 15-30°C. For the best results, store in tightly closed original containers. Stir and allow the content to cool to room temperature before use.

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