

Technical Data:

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U 106

General Purpose Poly Urethane Compound for Potting and Sealing

Product Description

U 106 is a two-component RT curing high flexible urethane encapsulating compound. The cured U 106 has thermal shock resistance, excellent electrical properties and adhesion to a variety of material. The U 106 demonstrates exceptional hydrolytic stability and low water absorption.

Features & Benefits

- High flexibility
- High hydrolytic stability
- Low moisture permeability
- High thermal cycling resistivity
- RT curing
- Excellent electrical properties

Applications

Electrical and electronic potting and encapsulation

Typical Uncured Physical Properties

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

Base Resins	U 106 (A) UC 138 (B)	PBD Isocyanate
Appearance/Color	U 106 (A) UC 138 (B)	Off-white Amber
Viscosity @ 25°C, mPa*s per ASTM-D-2393	U 106 (A) UC 138 (B)	4000-6000 150-250
Density @ 25°C, g/cm³	U 106 (A) UC 138 (B)	1.32-1.36 1.2
Mix Ratio A:B (w/w)	100:10	
Mix Viscosity @ 25°C, mPa*s per ASTM-D-2393	2000-3500	
Gel-time @ 25°C, 100g, min	28-35	
Final curing @ 25°C, days	6-8	

Instructions for use:

Stir compound U 106 thoroughly in the original container prior to use. Weigh out 10 parts of Part B (UC 138) per 100 parts of U 106.

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Mix curing agent in thoroughly mixing bottom & sides of the mixing container.

Pour into mold or unit as require. Air can be removed with vacuum at 5-10mmHg .

Typical Cured Properties

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

Color	Off-white
Hardness, Shore A (after 7 days)	65-70
Tensile Strength, kg/cm², ASTM -D-638,	20-25
Tensile Elongation, %, ASTM- D-638	75-80
Water Absorption @25°C, 7 days, %	0.12-0.15

Storage

Store products at 15-35°C for maximum shelf life.

Shelf Life

These products have a shelf- life of 9 months in their unopened original bulk containers.

Packaging

Packaging sizes are available from 1L up to 200L barrel.

Limitation of Liability

Except where prohibited by law, Polymer-G and seller will not be liable for any loss or damage arising from the Polymer-G product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.