

Technical Data:

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U 106

General Purpose PU Compound for Potting and Sealing

Product Description

U 106 is a two- component RT curing high flexible urethane encapsulating compound. U106 has thermal shock resistance, excellent electrical properties and adhesion to a variety of materials. U106 demonstrates exceptional hydrolytic stability and low water absorption.

Features & Benefits

- High flexible
- Low moisture permeability
- RT Curing
- High hydrolytic stability
- High thermal cycling resistivity
- Excellent electrical properties

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.

Base Resins	U 106 (A) UC 138 (B)	Polyol mixture Isocyanate
Appearance/Color	U 106 (A) UC 138 (B)	Off white Amber
Viscosity @ 25°C, mPa*s per ASTM-D-2196	U 106 (A) UC 138 (B)	4000-6000 150-250
Density @ 25°C, g/cm³	U 106 (A) UC 138 (B)	1.34 ± 0.02 1.20 ± 0.02
Mix Ratio A:B (w/w)	100:10	
Mix Viscosity @ 25°C, mPa*s per ASTM-D-2196	2000-3500	
Gel-time @ 25°C, 100g, min	28-35	
Final Curing @ 25°C, days	6-8	

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Instructions for use:

Stir compound U 106 thoroughly in the original container prior to use.
Weigh out 10 parts of Part B (UC138) per 100 parts of Part A (U106)
Mix thoroughly. Pour into mold or unit' as per requirement. Remove air by vacuum at 5-10 mmHg.

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	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
Working Temperature @ °C	-40 to 90

Storage

Store products at 15-30°C for maximum shelf life.

Packaging

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

Shelf Life

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

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.