

Technical Data:

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U 105

Soft, Two Component PBD-based PU Compound offering exceptional hydrolytic stability and very low glass transition

Product Description

U 105 is a two-component, unfilled, soft, potting, casting and encapsulating PU compound. It has excellent thermal cycling properties and hydrolytic stability, extremely low glass transition temperature and low water permeability.

Features & Benefits

- High flexible
- Low moisture permeability
- Low Tg
- High hydrolytic stability
- High thermal cycling resistivity
- 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 105 (A) UC 138 (B)	PBD Isocyanate
Appearance/Color	U 105 (A) UC 138 (B)	Black Amber
Viscosity @ 25°C, mPa*s per ASTM-D-2393	U 105 (A) UC 138 (B)	1800-2200 150-250
Density @ 25°C, g/cm³	U 105 (A) UC 138 (B)	0.95 1.2
Mix Ratio A:B (w/w)	100:10	
Mix Viscosity @ 25°C, mPa*s per ASTM-D-2393	1300-1700	
Gel-time @ 25°C, 100g, min	90-120	
Final curing @ 25°C, days	6-8	

Instructions for use:

Stir compound U 105 thoroughly in the original container prior to use

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U 105

Soft, Two Component PBD-based Polyurethane Compound offering exceptional hydrolytic stability and very low glass transition

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	black
Hardness, Shore A (after 7 days)	36-38
Glass transition temperature, °C	-78
Service Temperature, °C	-55 to 90
Water Absorption @25°C, 7 days, %	0.15-0.20

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.