

Technical Data:

Issued: March 2006
Revision: Dec. 2016, Page: 1

U 302

Low Viscosity Fast Cured PU Compound for Potting and Sealing

Product Description

U 302 is a unique two-component, low viscosity, fast creaming and curing potting/adhesive polyurethane compound. Being cured, it displays high mechanical properties and high adhesion to metals, plastics and other materials

Features & Benefits

- Fast curing
- High adhesion to metals, plastics and filter media
- Suitable for manual and automatic mixing
- Low viscosity
- VOC free
- High hydrolytic resistivity

Applications

Air filter manufacturing

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 302 (A) UC 138 (B)	Polyol mixture Isocyanate
Appearance/Color	U 302 (A) UC 138 (B)	As required Amber
Viscosity @ 25°C, mPa*s per ASTM-D-2393	U 302 (A) UC 138 (B)	400-700 150-250
Density @ 25°C, g/cm³	U 302 (A) UC 138 (B)	1.06 ± 0.02 1.22 ± 0.02
Mix Ratio A:B (w/w)	100:50	
Creaming time @ 25°C, sec	8-12	
Gel-time @ 25°C, min	12 to 20	
De-molding @ 25°C, min	from 20 to 40	
Ultimate Cure @ 25°C, days	1-2	

Instructions for use:

Stir compound U 302 thoroughly in the original container prior to use

Technical Data:

Issued: March 2006
Revision: Dec. 2016, Page: 2

U 302

Low Viscosity Fast Cured PU Compound for Potting and Sealing

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.

Hardness , ASTM-D-2240, Shore A	85-95
Tensile Strength , ASTM-D-638, MPa	8-10
Tensile Elongation , ASTM-D-638, %	45-50
Lap Shear Strength , ASTM-D-1002, MPa etched Al	8-12
Service Temperature , °C	-40 to 100

Storage

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

Packaging

Packaging sizes are available from 1L up to 18L 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.