POLYMER|G

Technical Data:
Issued: August 2023
Rev. 2: October 2024, Page: 1

U 408

Two-Component Low Viscosity Flexible PU Compound

Product Description

U 408 is a unique low viscosity, fast curing, UL compliant flexible PU compound. The cured product exhibits excellent mechanical performance and is suitable for sealing, potting and encapsulating of electrical and electronic components.
Flexible within the range of temperature: -40 to +120°C

Features & Benefits

- Low viscosity
- Suitable for manual and automatic mixing
- Excellent mechanical properties
- Fast curing
- Self-extinguishing UL-HB 6.0 mm compliant

Applications

Potting and encapsulating of electrical and electronic components and devices

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 408	**UC 138 (B) HARDENER**
Color	Black	Amber
Density@ 25ºC, g/cm^3	1.17	1.25
Mix Density@ 25ºC, g/cm^3	1.19	
Viscosity @25ºC, mPa*s	1200-2000	150-250
Mix Ratio A:B (w/w)	100	32
Mix Viscosity, mPa*s	800-1600	
Gel Time@ 25ºC**,** min	20-40	
Final Curing @ 25ºC**,** days	7-8	
Flexibility Temperature Range*	-40-+120°C	

***** Polymer-G internal test PG-24

Polymer Gvulot Ltd.
Kibbutz Gvulot, 85525 ISRAEL
Tel.: +972 (0)8 9987931, Fax.: +972 (0)8 9965286
Mail: info@polymer-g.com
http://www.polymer-g.com

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Instructions for use: Stir compound U 408 thoroughly in the original container prior to use

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

Typical Mechanical Properties (Cured)*

	U408/UC 138
Hardness, Shore A	70-90
Tensile Strength, MPa	3.6
Tensile Elongation, %	50

Typical Electrical Properties (Cured)*

	U408/UC 138
Surface resistivity, ASTM 257, Ω	4.2E+14
Volume resistivity, ASTM 257, Ω.m	3.4E+12

Other Properties (Cured)

	U408/UC 138
Water intake, ASTM D 570,(%).	7 days: < 0.7 30 days: < 1.1

*) all data obtained after 7 days at room temperature

Storage and Handling The shelf life of the U 408 is 9 months at 15-30°C.
For the best results, store in tightly closed original containers.
Stir and allow content to cool to room temperature before use.

Packaging Packaging sizes are available from 1L, 18L pails up to 200L barrels.

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.

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Notice All data herein is based on Polymer-G lab equipment performance and according to internal test methods.

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