

## Technical Data:

Issued: July 2020  
Revision 8: March 2023, Page: 1

## U 405 D

Two-Component Low Viscosity Flexible PU Compound

### Product Description

U 405 D is a unique low viscosity, fast curing, UL certified 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
- Excellent mechanical properties
- Suitable for manual and automatic mixing
- Fast curing
- Self-extinguishing UL-HB certified

### 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 405 D (A)	HARDENER (B) UC 138
<b>Color</b>	Black	Amber
<b>Viscosity @25°C, mPa*s</b>	1200-3500	150-250
<b>Density@ 25°C, g/cm<sup>3</sup></b>	1.2-1.3	1.2
<b>Mix Ratio A:B (w/w)</b>	100	23
<b>Mix Viscosity, mPa*s</b>	600-900	
<b>Gel Time@ 25°C, min</b>	20-40	
<b>Final Curing @ 25°C, days</b>	7-8	
<b>Flexibility Temperature Range*</b>	-40-+120°C	

\* Polymer-G internal test PG-24

### Instructions for use:

Stir compound U 405D thoroughly in the original container prior to use

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Issued: July 2020

Revision 8: March 2023, Page: 2

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**Typical Cured Properties<sup>\*)</sup>**

	<b>U405D/UC 138</b>
<b>Hardness, Shore A</b>	70-90
<b>Tensile Strength, MPa</b>	3.6
<b>Tensile Elongation, %</b>	50-70
<b>Surface resistivity, ASTM 257, <math>\Omega</math></b>	2.505E+13
<b>Flammable Rating</b>	UL-HB 1.5 mm

**Storage and Handling**

The shelf life of the U 405D 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.