

Technical Data:

Issued: Sept. 2005
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U 2047

Clear Low Viscosity Polyurethane Compound

Product Description

U 2047 is a clear two-component, low viscosity, semi-flexible PU compound for potting, casting and encapsulating. U 2047 demonstrates good mechanical and electrical properties in conjunction with excellent outdoor durability, high resistance to UV, solvents and chemicals. Pot life can be varied in wide range upon customer request.

Features & Benefits

- Clear
- High UV resistance
- Good adhesion to metals and ceramics
- Semi-flexible
- High electrical and mechanical properties
- Flexible pot life

Applications

Electrical and Electronic Potting and Encapsulating

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 2047 (A) UC 2047(B)	Polyol Poly-isocyanate
Appearance/Color	A B	Clear Clear
Viscosity @ 25°C, mPa*s per ASTM-D-2393	A B	150-350 600-800
Density @ 25°C, g/cm ³	A B	1.05 ± 0.02 1.20 ± 0.02
Mix Ratio A:B by weight by vol.		100:86 100:100
Mix Viscosity@ 25°C, mPa*s per ASTM-D-2393		300-500
Gel-time @ 25°C, (100g), min		30-45
Curing time @ 25°C, hr		24

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Color	Clear
Final properties @ 25°C, days	>7
Hardness, ASTM –D-2240, Shore A	60-70
Tensile Strength, ASTM-D-638, MPa	2.0-2.3
Tensile Elongation, ASTM-D-638, %	35-50
Service 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 5L jerricans.

Shelf Life

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