



PNU-46202

C6-57119

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DEFINITION

PNU-46202 is an electronics grade; unfilled, room temperature fast curing; two-component polyurethane adhesive is designed for the adhesion and encapsulation of circuit boards, circuit board components and for screw-thread sealing. The cured materials provide long-term circuit protection and bond stability from -55°C to 100°C. **PNU-46202** bonds well to most metals, ceramics and plastics as well as to epoxy and paper phenolic circuit boards. The clarity of **PNU-46202** allows examination of all encapsulated components and circuit boards. **PNU-46202** is available in self-mixing **MixPac**[®] for field use and in plant applications.

PRODUCT DESCRIPTION

Appearance	Liquid
Odor	Faint
Color (May be modified to meet your requirements)	WATER CLEAR (& colors)

Property	Result	Methods
Viscosity	8,000 mPa·s	Brookfield RVT, Spindle 27, Small Sample Adaptor, 10 rpm, 25°C

Other information	
Work life time @ 25 ± 2°C	5 minutes
Gel Time @ 25°C	15 minutes
Full Cure Time @ 25°C	24 hours (in thin films)
Possible alternate curing cycles	30 seconds @ 65°C (149°F) 10 seconds @ 95°C (203°F)
Mix Ratio:	1:1 Weight and Volume
Specific gravity @ 25°C (g/cm ³)	1.13
Storage stability (unmixed)	1 year at room temperature

APPLICATION PROPERTIES

- **PNU-46202** polymer backbone provides excellent flexibility at low and high temperatures, UV and moisture resistance.
- **PNU-46202** has low shrinkage on curing.

- **PNU-46202** has excellent adhesion to most substrates without primers.
- **PNU-46202™** is unaffected by soldering or cleaning processes.

APPLICATION RECOMMENDATIONS

- Because of the high reactivity, of the components of **PNU-46202**, it is recommended that **PNU-46202** be used in the MixPac™ dispensers. See packing requirements.

TYPICAL PROPERTIES OF CURED PNU-46202

The properties set out below were determined following measurements carried out in the laboratory over a small number of tests. They are values given by way of guidance, and do not constitute a guarantee. It will be for the user, in all cases, to carry out their own tests to determine whether the **PNU-46202** resin can be used for the particular application the user has in mind.

Properties	Methods	Units	Typical values
Shore A hardness	ASTM D2240	-----	80
Shrinkage, 24 hr @ 25°C	-----	%	0.77
Lap shear to AL @ 25°C(2024 T3)	ASTM D3163	psi	2,000
Glass Transition Temperature (Tg)	DSC 1	°C	-38
Water absorption	85°C 24 hours immersion in water.	%	1.04
	Room temp immersion	%	0.08

ELECTRICAL PROPERTIES

Properties	Methods	Units	Typical values
Volume Resistivity <ul style="list-style-type: none"> • 100 V • 500 V 	ASTM D257	Ω-cm	<ul style="list-style-type: none"> • 6.5 x 10¹³ • 4.6 x 10¹³
Dielectric Constant <ul style="list-style-type: none"> • 120 Hz • 1000 Hz 	ASTM D150	--	<ul style="list-style-type: none"> • 4.63 • 4.41
Dissipation Factor <ul style="list-style-type: none"> • 120 Hz • 1000 Hz 	ASTM D150	--	<ul style="list-style-type: none"> • 0.027 • 0.027

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PRECAUTIONS IN USE

Refer to the attached material safety data sheet.

PACKAGING

PNU-46202 is available in two-part **MixPac**[®] and as kits for meter mix systems. For part number and kit size information please contact Protavic America, Inc.

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