



PNU-56200

Rev: 3.2
 C6-57092
 C6-57093
 C6-57150

DEFINITION

PNU-56200 is an electronics grade; unfilled, room temperature fast curing; two-component polyurethane adhesive 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-56200 bonds well to most metals, ceramics and plastics as well as to epoxy and paper phenolic circuit boards. The clarity of PNU-56200 allows examination of all encapsulated components and circuit boards. PNU-56200 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).	Amber, white or black

Property	Result	Methods
Viscosity	5,000 mPa·s	Brookfield RVT, Spindle 27, Small Sample Adaptor, 10 rpm, 25°C

Other information	
Work life time @ 25 ± 2°C	2 minutes
Gel time @ 25°C	5 minutes
Full cure time @ 35°C	4 hours (in thin films)
Possible alternate curing cycles	15 seconds @ 65°C (149°F) 5 seconds @ 95°C (203°F)
Specific gravity @ 25°C (g/cm ³)	1.1
Storage stability (unmixed)	1 year at room temperature

APPLICATION PROPERTIES

- **PNU-56200** polymer backbone provides excellent flexibility at low and high temperatures, UV and moisture resistance.
- **PNU-56200** has low shrinkage on curing.
- **PNU-56200** has excellent adhesion to most substrates without primers.
- **PNU-56200** is unaffected by soldering or cleaning processes.

APPLICATION RECOMMENDATIONS

- Because of the high reactivity of the components of **PNU-56200**, it is recommended that **PNU-56200** be used in the **MixPac™** dispensers. See packing requirements.

TYPICAL PROPERTIES OF CURED PNU-56200

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-56200** resin can be used for the particular application the user has in mind.

Properties	Methods	Units	Typical values
Shore A hardness	ASTM D2240	-----	90
Shrinkage, 24 hr @ 25°C	-----	%	0.4
Lap shear to AL @ 25°C	ASTM D3163	psi	2,000
Glass Transition Temperature, Tg	DSC1	°C	-38

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-56200 is available in two-part **MixPac™** or in a two component kit. For part number and kit size information please contact Protavic America, Inc.

The information contained in this data sheet corresponds to the present state of our knowledge; it is intended for your guidance but we are not bound by it since we are not in a position to exercise control over the manner in which our products are used. Moreover; the attention of the user is drawn to the risks that could possibly occur should a product be used for an application other than that for which it is intended.

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