ANA-97173 ™

P/N6-57500

DEFINITION

ANA-97173™ is a clear Ultraviolet/ Visible light curing adhesive. It is a low viscosity urethane modified acrylic casting system. It was developed for adhesive and coating applications. It is recommended for small electrical/electronic casting and encapsulating applications that require a unique combination of excellent wetting, flow, good thermal expansion properties, thermal shock resistance, and outstanding electrical properties. Adhesion is excellent to metals, most engineered plastics, and glass.

PRODUCT DESCRIPTION

Appearance	Liquid
Odor	Pine like
Color (May be modified to meet your requirements)	CLEAR

Property	**Result**	**Methods**
Viscosity	1300 mPa·s	Brookfield RVT, Spindle 27, Small Sample Adaptor, 10 rpm, 25°C

Other information	
Work life time @ 25 ± 2ºC	Infinite. Cures only with UV or visible light
Depth of cure	Greater than 1/2 inch
Full Cure Time @ 25°C	18 seconds with 100mW flood UV curing system at a six inch distance from bulb
Mix Ratio	Single component. Mo mixing required
Possible curing cycles	18 seconds at 100 mW 5 seconds 3/8” depth with 7 watt/cm² wand system
Specific gravity @ 25ºC (g/cm³)	1.1
Storage stability (unmixed)	1 year at room temperature

Protavic America, Inc.
Tel & Fax: 800 807 2294
www.protavicamerica.com

APPLICATION PROPERTIES

- **PTE- 97173 ™**, when fully cured, is highly resistant to moisture, hot water, steam, hot antifreeze solutions, automotive fluids, detergents, gasoline, hydraulic fluids, plasticizers, cleaning agents, acids, and bases.

- **ANA-97173™** is highly resistant to vibration and can be thermal cycled between –40 and 150°C.

TYPICAL PROPERTIES OF CURED ANA-97173™

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 **ANA-97173®** resin can be used for the particular application the user has in mind.

PHYSICO-CHEMICAL PROPERTIES

Properties	**Methods**	**Units**	**Typical values**
Cure 18 seconds at 100mW			
Shore A hardness	ASTM D2240	-----	30
Lap shear to Al	ASTM D3163	psi	800

ELECTRICAL PROPERTIES

Properties	**Methods**	**Units**	**Typical values**
Volume Resistivity • 100 V • 500 V	ASTM D257	Ω-cm	• 8.0×10^{14} • 6.3×10^{14}
Dielectric Constant • 120 Hz • 1000 Hz	ASTM D150	--	• 4.3 • 4.3
Dissipation Factor • 120 Hz • 1000 Hz	ASTM D150	--	• 0.002 • 0.002

PRECAUTIONS IN USE

Refer to the attached material safety data sheet.

PACKAGING

ANA-97173 is available in syringes, 10ml.and 30ml. One liter and 15 liter containers
For sizes and part numbers, contact Protavic America, Inc.