



Beacon Adhesives
125 S. MacQuesten Pkwy
Mt. Vernon, NY 10550

PRODUCT INFORMATION SHEET- MAGNA TAC A31

Viscosity (cps)	Color	Base	Wt/Gal Solids	Diluant	Shelf Life
Thixotropic	Neutral Epoxy	8.1 lbs	100%	Do not dilute	1 year

DESCRIPTION

MagnaTac A-31 adhesive is a two-part, room temperature curing, epoxy resin formulation for general purpose applications. It is thixotropic with a creamy or buttery consistency that is easy to work and apply. Higher temperatures do not affect the thixotropy, tending, on the contrary, to inhibit flow further. Color is neutral.

TENSILE SHEAR STRENGTH (PSI)	Cured @ 77F	Cured 2hr @ 165F
@ Room Temperature 75°F	2311	2588
@ -60°F	2350	2954
@ 180°F	1620	2418
After Soaking		
7 days NH4 OH	2210	2387
7 days distilled H2O	2455	2541
7 days glacial acetic acid	2148	2355
7 days 10% NaCl	2369	2418
7 days acetone	2348	2351
7 days ethylene dichloride	2369	2478
7 days toluene	2299	2450
7 days ethylacetate	2698	2790
7 days hexane	2369	2440
7 days 100% relative humidity	2655	2720
Bond Strength (PSI)	2010	2215
Cleavage (PSI)	1820	1890
Tensile Strength (PSI)	4769	3960
Elongation (%)	1.80%	1.70%
Coefficient Thermal Expansion (in./in/°C x 10-5)	3.8	3.7

APPLICATIONS

The A-31 adhesive features low out-gassing characteristics which makes it quite suitable for bonding of vacuum devices. It is also quite resistant to thermal changes which make it quite useful for outdoor applications and for the bonding of dissimilar adherents. In general, it can be used for bonding all metals, hard plastics, treated Teflon and olefin plastics to themselves or to dissimilar materials. A special application of this adhesive is as a terminal sealer where the thixotropy of the adhesive is essential to successful spot bonding of the wires to the terminal. A-31 is recommended for any application where flow of the adhesive during cure cannot be tolerated.

STORAGE AND SHELF LIFE

Shelf life is one year when stored below 90°F out of sunlight and in original unopened containers of pints or greater. Shelf life will vary with specialty packages

For Further Technical Assistance Please Reach Out To:

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