



## 10-3055 ADJUSTABLE FLEXIBILITY EPOXY

### DESCRIPTION:

10-3055 is a filled epoxy adhesive system that allows the end user to adjust the flexibility of the cured adhesive. By simply varying the amount of hardener, the durometer can be adjusted from rigid to flexible.

10-3055 is low in viscosity and therefore wets out substrates forming an outstanding bond to most materials. This is a general purpose epoxy adhesive which is easy to use and is a perfect choice for bonding dissimilar substrates.

### TYPICAL SPECIFICATIONS:

Viscosity, 25°C, CPS

10-3055 Resin 35,000

CAT#6 10,000

Specific Gravity, 25°C

10-3055 Resin 1.60

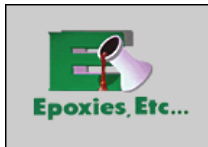
CAT#6 0.97

	<u>Rigid</u>	<u>Semi-Rigid</u>	<u>Flexible</u>
<b>Mix Ratio By Weight (Resin : Catalyst)</b>	100:25	100:50	100:100
Specific Gravity, 25°C	1.43	1.34	1.23
Pot Life, 100 grams, 25°C	115	90	90
Viscosity, 25°C, CPS	30,000	25,000	15,000
Tensile Lap Shear, Psi			
Aluminum to Aluminum	2,500	2,400	1,200
Operating temperature range, °C	-40 to +100	-55 to +85	-55 to +70
Coefficient of thermal expansion	$55 \times 10^{-6}$	$63 \times 10^{-6}$	$80 \times 10^{-6}$
Glass transition temperature, °C	70	40	20
Btu-in/hr.Ft <sup>2</sup> .°F	3.0	3.0	3.0
W/M.K	0.5	0.5	0.5
Dielectric Strength V/Mil	400	400	400
Dielectric Constant @ 1MHz	3.3	3.5	3.6
Dissipation Factor, @ 1 MHz	0.08	0.03	0.07
Volume Resistivity @ 25°C, ohm-cm	$>10^{15}$	$>10^{15}$	$>10^{15}$

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## Epoxy, Urethane & Silicone Formulations

### Cure Schedule

25°C	15 – 24 hours
45°C	5 – 6 hours
65°C	2 – 4 hours
90°C	30 – 45 minutes

### **PREPARATION OF SURFACES:**

Surfaces must be clean and grease free. Adhesion can be substantially increased by abrading the surfaces to be bonded with emery cloth, sand paper, carbide grinding tools, sand blasting, etc... A roughened, porous surface will produce the best results. Any oxidized metal films should be removed just prior to application of the epoxy adhesive mixture.

For clean up and messy spills, use one of our safety solvents, such as #5450.

### **HANDLING, STORAGE & AVAILABILITY:**

Separation is common during shipping and/or storage. Therefore, it is suggested that the contents of resin and catalyst be thoroughly mixed prior to use.

Store in cool, dry place in original containers. Expected shelf life is twelve months in original unopened containers.

10-3055 and catalyst #6 is available in quarts, gallons, and 5 gallon pails.

### **IMPORTANT:**

The information in this brochure is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof or that any such use will not infringe any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

Always read the Material Safety Data Sheet before using this or any other chemical.

06/03

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