

Revised  
January 2004



9411 Corsair Road  
Frankfort, IL 60423  
1-800-552-0299 Phone  
1-815-464-5650 Fax

**EMERGENCY PHONE 1-800-255-3924**

## TECHNICAL DATA SHEETS

### MP 54460

#### Description:

**MP 54460** is a medium viscosity epoxy/copolymer resin formulation recommended for industrial bonding, small potting and laminating applications where excellent structural, mechanical and electrical properties are required. This two-part adhesive exhibits good wetting, cures at room temperature and develops strong, low shrinkage bonds to most materials including optical fibers, glass ceramics, most metals and many rigid plastics. It has excellent dimensional stability over a wide temperature range. Fully cured **MP 54460** is a durable electrical insulator with good physical properties, plus resistance to water, weather, ozone and oxygen, petroleum solvents, lubricating oils, jet fuels, gasoline, alcohol, salt solutions, mild acids and alkalis and many other organic and inorganic compounds.

#### Typical Properties:

All properties given are at 25°C unless otherwise noted.

Color		Off- White
Viscosity	Part A	40,000 cps
	Part B	80,000 cps
	Mixed	50,000 cps *
Specific Gravity	Part A	1.15
	Part B	1.07
	Mixed	1.12
Pot Life		20 minutes
Mass		50 grams
Hardness Shore - D		75 - 80
Temperature Range		-60 to 150°C
Tensile Elongation		2.35%
Tensile Strength		6600 psi
Tensile Lap Shear (2024 T3 Aluminum Abraded / MEK Wipe)		3700 psi
T-peel Strength (Al to Al)		25 pli *
Dielectric Constant (25C, 100Hz)		4.5 *
Dielectric Strength		440 v/mil *
Volume Resistivity		$8 \times 10^{14}$ ohm-cm *

#### MIX RATIO:

Mix Ratio (Part A to B):  
by weight 213 to 100  
by volume 2 to 1

#### CURE SCHEDULE:

24 hours at 25°C  
or 2 hours @ 65°C

#### SHELF LIFE:

12 Months

#### INSTRUCTIONS:

- 1) Bring to room temperature before use.
- 2) Weigh and mix parts A and B accurately and thoroughly, scraping sides of container often. Pre-bleed side-by-side cartridges, discarding the first 3 inches of dispensed material. Maintain adequate velocity during dispensing to ensure complete mixing.
- 3) Allow to cure undisturbed.

### Engineering Excellence

For technical information  
and support call **1-800-552-0299** or visit our website at

**[www.instantca.com](http://www.instantca.com)**