

Revised  
January 2002



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 5434

#### Description:

MP 5434 is a two part unfilled epoxy adhesive designed for bonding of metals, ceramics and most plastics. This product gives good resistance to water, salt spray, inorganic acids and bases and most organic solvents. This product gives better water and temperature resistance than standard 5 minute epoxy.

It was especially formulated to a 1:1 mix ratio for use in either MMD equipment or side by side dual cartridges for easy dispensing. A handling cure is normally achieved at room temperature within 30 - 60 minutes with full cure in 24 hours. An elevated temperature cure schedule can be used to reach final properties quickly.

#### Physical Properties:

Color Part A:	Clear
Color Part B:	Clear/LightYellow Tint
Solids Content:	100%
Temperature Range, °C:	-60 to 120
Hardness, (Instantaneous Reading):	85-90 Shore A
Tensile Strength:	2,200 psi
Elongation:	200%
Tensile Lap Shear (Lexan/Lexan):	780 lbs/inch
Tensile Lap Shear (Lexan/Butyrate):	780 lbs/inch
T-Peel:	80 to 90 pli
Dielectric Strength, Volt/Mil:	400
Dielectric Constant, 1MHz:	3.40
Dissipation Factor < MHz:	.04

#### Handling Characteristics:

Mix-Ratio by Volume,	
Part A(Resin):Part B(Hardener):	1 to 2
Viscosity of Resin @ 25°C, cps:	15,000
Viscosity of Hardener @ 25°C, cps:	12,000
Viscosity Mixed @ 25°C, cps:	13,500
Application (Work) Life:	3-5 Min. in Standard 6" Mix Head
Gel Time	20 Minutes
Handling Strength	30 to 40 Min. @ 75 °F
Accelerated Cure	15 Minutes @ 150 °F
Room Temperature Cure	Overnight
Specific Gravity, Part A:	1.13
Specific Gravity, Part B	1.05

**Note #1:** The values shown in this data sheet are typical and are not recommended for specification purposes, unless practical tolerances are established.

**Note #2:** This product is designed for thin film bond line application. The rapid cure of this product will result in entrapment of CO<sub>2</sub> gas in thicker sections. Other than aesthetic concerns, this phenomenon will not adversely affect the functionality of this adhesive.

#### Storage:

Store below 25°C out of sunlight and in original unopened containers. Refer to packaging specific quote for shelf life information.

### Engineering Excellence

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