

# Product Bulletin MF-E301

## High Temp Filled Epoxy Laminating System

**Michigan Fiberglass Sales, Inc.**  
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### **Description:**

**MF-E301** is a health safe, filled, non-staining, high temperature epoxy laminating system. MF- E301 was developed to handle high temperature cycling at up to 400 degrees F with intermittent temperatures higher. While MF-E301 will gel at room temperature, it must be post cured to reach its ultimate strength.

### **Uses:**

Vacuum Form molds	Prototype Injection Molds
High Temp Bonding Fixtures	Spray Metal Molds
Compression Molds	High Temp Laminating Molds
Parts to be used in High Temp Applications	

### **Material Handling Properties:**

Mix Ratio _____	100R/15H pbw
Density _____	12.2 lbs / gal
Specific gravity _____	(1.46)
Work time @ 25C/77F _____	60 minutes
Demold Time _____	dependant on post cure
Mixed Viscosity _____	3000 cps
Shelf Life ( unopened @ 77F ) _____	1 year
Ultimate Compressive strength (ASTM D-695) _____	31,000 psi
Ultimate flexural strength (ASTM D-790) _____	32,400 psi
Tg by DSC _____	166C/330F
Flexural Modulus (ASTM D-790) _____	1.6 x 10(6)
Ultimate Tensile strength (ASTM D-638) _____	35,000 psi

### **Recommended Cure Schedule:**

2 hours @ 66C/150F  
2 hours @ 93C/200F  
2 hours @ 121C/250F  
1 hour @ 149C/300F  
4 hours @ 177C/350F

\*ramp rates should be done at 5 to 10 degrees / min F

<b>Important notice:</b> Since the use of this product is beyond the control of the seller, the buyer assumes all risks of the use or handling, whether in accordance with the directions or not, as seller makes no warranty, expressed or implied concerning this product.
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