



DATA SHEET

TMR 2001A and TMH 2001B
 High Temperature Laminating Resin
 Room Temperature Cure

TMR 2001 is a two part lightly filled high temperature epoxy laminating system. **TMR 2001** has improved workability vs. standard laminating systems and provides long working time for fabrication of larger and more complicated tools. **TMR 2001** has very high heat resistance and will provide long term service in oven and autoclave applications. **TMR 2001A and TMH 2001B** is considered a low hazard potential safety system and does not contain any regulated or restricted raw materials. **TMR 2001A and TMH 2001B** does not contain VCHD, MDA or any aniline derivatives. Consult our Toolmaster® manual for detailed application instructions.

<u>Mix Ratio</u> (by weight)	<u>Color</u>
100 parts TMR 2001A	Black
9 parts TMH 2001B	Amber

Pot Life 100 grams mass at 72°F (22°C) 3-4 hours

Service Temperature 400°F (204°C)

<u>Mechanical Properties (Mixed)</u>	Specific gravity, gms/cc	1.40
	Viscosity, centipoise	5200 cps
	Density, lbs/cu. in.	.0507
	Flexural strength 77°F (25°C)	44,200 psi (304.7 Mpa)
	Flexural strength 350°F (177°C)	17,170 psi (118.4 Mpa)

- Cure Schedule Unsupported post cure:
- Cure on the pattern for 36 to 48 hours at room temperature (minimum 72°F/22°C) under vacuum bag.
 - Remove from the pattern
 - Post cure for 3 hours at 150°F/66°C, 3 hours at 250°F/121°C, 3 hours at 350°F/177°C and 3 hours at 375°F/191°C.

Note: Laminate should be post cured 25°F over the expected service temperature for three hours. Material may be post cured up to 425°F/218°C to facilitate higher temperature cures.

Container Packaging:

<u>Description</u>	<u>Product</u>	<u>Gallon</u>	<u>5 Gallon</u>	<u>Drum</u>
TMR 2001A (Metric)	Resin	1 gallon (9 lbs.) (3.78 liters, 4.08 kgs)	5 gallon (40lbs.) (18.93 liters, 18.14 kgs)	Drum (450 lbs.) (Drum, 204.12 kgs)
TMH 2001B (Metric)	Hardener	1 pint (1 lb.) (.47 liters, 454 grams)	1/2 gallon (3.75 lbs.) (1.89 liters, 1.70 kgs)	5 gallon (41 lbs.) (18.93 liters, 18.60 kgs)

Note: Part A resins and Part B hardeners are only sold individually by U.S. measurement container size shown above and are grouped for proper mix ratio. Volume per container will vary depending on product weight shown above. Metric conversions shown for container sizes above are for reference purposes only.

Shelf Life One year from date of shipment when stored at 72°F (22°C)

CATALOG POSITION: **TOOLMASTER**



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