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## TECHNICAL DATA SHEETS

### MP 5401

#### Description:

**MP 5401** is a one component, heat curable thixotropic paste epoxy adhesive. It is a non-sag adhesive, which forms strong bonds to metals and ceramics. **MP 5401** has exceptional thermal stability and resistance to water, humidity and solvents. This product offers high heat resistance and cures in less than 36 seconds via induction or infrared heating.

#### Typical Applications:

- Permanent Magnet Motors and Loudspeaker Assembly
- Air Conditioning Joint Tubes and Compressors
- High Temperature Structural Bonding
- Filter End Cap and Side Seam Assembly

#### Physical Properties:

Standard Color	Gray
Specific Gravity	1.46 @ 25 °C
Viscosity	700,000-900,000 cps @ 25 °C
Press Flow	70-90 seconds
Sag Resistance	0.375" - 0.420"
Tensile Strength	6,770 psi Typical
Lap Shear Strength	3,200 psi Typical
Hardness	86 Shore D @ 25 °C
Elongation	>1.5%
Impact Strength	0.36 ft lbs/in
CTE	$5.72 \times 10^{-5}$ in/in °C
Tg	148 C
Operating Temperature Range	-40 to 400 °F
Thermal Conductivity (BTU/HR/FT <sup>2</sup> / F/FT)	235
Unleaded Gasoline Resistance (1,500 Hrs.)	3,200 psi Typical Prior to test 3,200 psi Typical After 1500 hours of submersion

#### Storage:

<32 °F	75 °F	100 °F
12 months	6 months	2 weeks

#### Cure Schedule:

250 °F	300 °F	350 °F	Induction @ 400 °F
10 min.	2 min.	1 min.	<36 seconds

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