

Revised
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TECHNICAL DATA SHEETS

MP 5405 BK

Description:

MP 5405 BLACK is a two part unfilled epoxy adhesive designed for ceramics, and most plastics. It cures to a tough semi-rigid material, and is free flowing in viscosity. It gives good resistance to water, salt spray, inorganic acids and bases, and most organic solvents. 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 20 - 30 minutes with full cure in 24 hours. An elevated temperature cure schedule can be used to reach final properties quickly.

Handling and Storage:

- 1) Bring both components to room temperature prior to mixing. Mix 1 parts A to 1 part B thoroughly.
- 2) Allow to cure undisturbed until product is fully gelled or tack-free to the touch.
- 3) Clean up uncured resin with suitable organic solvent such as MEK, acetone or a chlorinated solvent.

Mix Ratio:

1A:1B by weight or 1A:1B by volume.

Shelf Life:

12 Months

Handling Characteristics:

All properties given are at 25C unless otherwise noted.

Color	Black		
Viscosity	Part A	14,000 cps	
	Part B	15,000 cps	
	Mixed	14,500 cps	
Specific Gravity	Part A	1.16	
	Part B	1.15	
	Mixed	1.16	
Pot Life	3 - 5 minutes		
Mass	20 grams		
Tensile Strength	2300 psi		
Lap Shear (Al to Al)			
Tensile Elongation	3 - 5%		
Tensile Strength	7000 psi		
Temperature Range	-40 to 130C		
Hardness	80		
Method	Shore -D		
Linear Coefficient of Thermal Expansion	(x 10 ⁶)/C		62
Dielectric Constant	4.5		
(25C, 100Hz)			
Dielectric Strength	410 v/mil		
Volume Resistivity	8 x 10 ¹⁴ ohm-cm		

Engineering Excellence

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