

## FARBOSET<sup>®</sup> 9251 GRAY

FARBOSET 9251 epoxy powder coating is designed particularly for motor iron applications where high cut through, fast cure and thermal resistance are required. It is recommended for meter coils, busway, stators, rotors and armature insulation.

### PHYSICAL PROPERTIES

Specific Gravity	1.5
Edge Coverage, %, ASTM D 2967	50
Water Absorption, %, 24 hrs., 23°C	0.1
Coefficient of Thermal Expansion, cm/cm/°C, x 10 <sup>-6</sup>	55
Glass Transition Temperature, T <sub>g</sub> , °C, TMA	110
Impact Resistance, in/lb direct	160
Cut-through Resistance, °F, (1/2 lb.-28 ga. wire), hrs.	725
Heat Resistance at 220°C, hrs. (based on impact)	500

### POWDER PROPERTIES

Hot Plate Gel Time, 200°C, seconds	30
Plate Flow, mm, 150°C/60° angle	35
Particle Size, U.S. Mesh, %	
+80, maximum	1
-325	30 ±3
Shelf Life: 4°C (40°F), months	12*
21°C (70°F), months	4*

\* Defined as not more than 40% loss of flow based on original values.

Test methods for any property can be obtained through Farboil Company.

All tests are performed at room temperature (22°C) unless otherwise specified. Data represents typical values and should not be considered specifications.

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### ELECTRICAL PROPERTIES

Dielectric Constant, 1 KHz, ASTM 150	4.00
Dissipation Factor, 1 KHz, ASTM 150	0.0080
Loss Factor, 1 KHz, ASTM 150	0.032
Dielectric Strength, volts/mil, ASTM 149	900

### APPLICATION DATA

Optimum preheat depends on mass and heat capacity of the part to be coated. Medium to large parts with sufficient mass will cure without post cure. Small parts of low heat capacity may require a post cure at 200°C for 5 to 10 minutes. For nonelectrostatic applications preheat parts to approximately 220°C, later adjusting as necessary to optimize coating.

The data herein represent typical values by the methods indicated and should be so considered. Since application variables are a major factor in product performance, this information should serve only as a guide. To the best of our knowledge, the data are correct, but the company assumes no obligation or liability for use of data presented. The manufacturer makes no warranties of merchantability or freedom from patent infringement and there are no warranties which extend beyond the description of the face hereof including any warranty as to fitness for a particular use.