

# BMC 945

BMC 945 is an ESD level Conductive grade of Bulk Molding Compound and is suitable for compression, transfer and stuffer injection molding. It is characterized by excellent flow and controlled reactivity and is well suited for injection molding. Typical applications may include electronic enclosures, computer chip trays and storage boxes, and other applications requiring ESD level conductivity.

## **HEALTH AND SAFETY INFORMATION**

Direct contact with this material may cause minimal eye and skin irritation. Wash thoroughly after handling. For detailed handling instructions refer to the BMC, Inc. Material Safety Data Sheet (MSDS) for this product.

## **IMPORTANT NOTICE**

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## **TYPICAL PROPERTIES**

### **Molding**

|                          |             |
|--------------------------|-------------|
| Temperature ° F          | 280 - 330   |
| Mold shrinkage, mil / in | .005 - .001 |
| Specific gravity, molded | 1.75 - 1.95 |

### **Mechanical-Physical**

|   |             |
|---|-------------|
| Flexural strength, psi                  | 12 - 14,000 |
| Flexural Modulus, 10 <sup>6</sup> psi   | 1.8 - 2.0   |
| Tensile strength, psi                   | 6 - 7,500   |
| Compressive strength, psi               | 18 - 20,000 |
| Impact strength, notched Izod, ft-lb/in | 2 - 3       |
| Water absorption, 24 hours, 23 ° C, %   | .14 - .21   |
| Barcol hardness                         | 45 - 55     |

### **Electrical**

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Surface Resistivity, ohms / square | 10 <sup>5</sup> – 10 <sup>7</sup> |
|------------------------------------|-----------------------------------|

### **Thermal**

|   |             |
|---|-------------|
| Heat Deflection Temperature, 264 psi, ° F | >450        |
| Flammability @ .125" Thick                | UL 94V-0 ** |
| Glass Transition, °C                      | > 165       |

\*\* This product is not currently UL Listed.

Note: Mechanical and Electrical Properties Tests were conducted on Injection Molded panels.



BMC 945 Dk. Green 11046

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