

# BMC A50(XHS)

Thermoset Polyester  
Bulk Molding Compounds, Inc.

Message:

BMC A50(XHS) is a thermosetting polyester product. It is available in North America. Typical application areas are: electrical/electronic applications.  
Features include:  
flame retardant/rated flame  
high strength

| General Information   |                                    |                   |             |
|---|------------------------------------|-------------------|-------------|
| Features  | High strength                      |                   |             |
| Uses  | Electrical/Electronic Applications |                   |             |
| Appearance  | Available colors                   |                   |             |
| Forms   | Particle                           |                   |             |
| Physical  | Nominal Value                      | Unit              | Test Method |
| Specific Gravity  | 1.89                               | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow  | 0.15 - 0.25                        | %                 | ASTM D955   |
| Hardness  | Nominal Value                      | Unit              | Test Method |
| Barcol Hardness   | 35                                 |                   | ASTM D2583  |
| Mechanical  | Nominal Value                      | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield)   | 64.2                               | MPa               | ASTM D638   |
| Flexural Modulus  | 12400                              | MPa               | ASTM D790   |
| Flexural Strength (Yield)   | 139                                | MPa               | ASTM D790   |
| Compressive Strength  | 130                                | MPa               | ASTM D695   |
| Impact  | Nominal Value                      | Unit              | Test Method |
| Unnotched Izod Impact   | 590                                | J/m               | ASTM D256   |
| Electrical  | Nominal Value                      | Unit              | Test Method |
| Dielectric Strength   | 16                                 | kV/mm             | ASTM D149   |
| Arc Resistance  | 186                                | sec               | ASTM D495   |
| Flammability  | Nominal Value                      | Unit              | Test Method |
| Flame Rating  |                                    |                   | UL 94       |
| 1.52 mm   | HB                                 |                   | UL 94       |
| 2.22 mm   | HB                                 |                   | UL 94       |
| 3.11 mm   | 5V                                 |                   | UL 94       |
| Additional Information  |                                    |                   |             |
| Barcol Hardness, ASTM D2583: 30 to 40UL Flame Rating, UL 94, 0.058 to 0.062 in: HBUL Flame Rating, UL 94, 0.075 to 0.1 in: HBUL Flame Rating, UL 94, 0.120 to 0.125 in: 5-V |                                    |                   |             |
| NOTE  |                                    |                   |             |
| 1.  | Type 1                             |                   |             |

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