

Technical data sheet

BMC RF 9/18

BMC RF 9/18 is a bulk moulding compound based on an unsaturated polyester resin, fire retardant grade, halogen-free, reinforced with glass fibres. This BMC has been developed for electrical application. Good fire protection grade and good flow are combined into the **BMC RF 9/18**. **BMC RF 9/18** is certified V0 3,0 mm by UL laboratories. **BMC RF 9/18** is formulated according to RoHS, REAC regulation (SVHC) and WEEE European legislation.

Material code ISO 11469 >UP-(MD+GF)70FR(60)<

UL FILE E 111031

Typical material properties

| CHARACTERISTICS | METHOD | UNIT | VALUE |
|---------------------------------|---------------|-------------------|------------------|
| Quantity of glass | | % | 18 |
| Linear shrinkage | ISO 2577 | % | 0,1 |
| Density | ISO 1183 | g/cm ³ | 1,8 |
| Water absorption | ISO 62 Met. 1 | % | ≤0,2 |
| Flexural strength | ISO 14125A | MPa | 80 |
| Flexural modulus | ISO 14125A | MPa | 9.500 |
| Impact strength (Charpy) | ISO 179 | KJ/m ² | 25 |
| Rockwell hardness | ISO 2039-2 | HRm | 80 |
| Heat distortion temperature HDT | ISO 75 | °C | ≥200 |
| Surface resistivity | IEC 93 | Ω | 10 ¹⁴ |
| Volume resistivity | IEC 93 | Ω mm | 10 ¹⁴ |
| Dielectric rigidity | IEC 243 | KV/mm | 16 |
| Arc resistance | ASTM D 495 | s | ≥180 |
| Glow wire GWFI | IEC 695-2-1 | °C | 960 |
| Flammability | UL 94 | Class / mm | V0 / 3,0 |

Properties were determined on compression-moulded specimens according UNIPLAST rules project 412 and 413



SMCBMC

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Storage and processing conditions

| | |
|----------------------|--|
| Storage | at 15-25°C, in dry ambient and out of direct sun light |
| Moulding time | 30 s/mm |
| Moulding pressure | 60 - 110 bar |
| Moulding temperature | 140 - 160°C |

Note: The information contained in this sheet is correct and accurate and it based on our technical and scientific knowledge and on literature at the date of going to press. Such information relates only to use of the products in the pure state and for the purposes stated herein. Nothing stated here may be taken or construed as implying of any existing patents. Nor is any warranty, whether explicit or implicit, given with regard to results to be obtained through the use of the aforesaid information.

