

## Technical data sheet

### BMC RF 18 VE

**BMC RF 18 VE** is a bulk moulding compound based on a vinylester resin, fire retardant grade, halogen-free, reinforced with glass fibres. This BMC has been developed for electrical application. Excellent mechanical properties, mainly impact resistance, and good fire protection grade are combined into the **BMC RF 18 VE**.

**BMC RF 18 VE** is formulated according to RoHS, REAC regulation (SVHC) and WEEE European legislation.

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

#### Typical material properties

CHARACTERISTICS	METHOD	UNIT	VALUE
Linear shrinkage	ISO 2577	%	0,0
Density	ISO 1183	g/cm <sup>3</sup>	1,8
Water absorption	ISO 62 Met. 1	%	≤ 0,2
Flexural strength	ISO 14125A	MPa	120
Flexural modulus	ISO 14125A	MPa	11.000
Tensile strength	ISO 527-4	MPa	40
Tensile modulus	ISO 527-4	MPa	10.000
Impact strength (Charpy)	ISO 179	KJ/m <sup>2</sup>	60
Rockwell hardness – M scale	ISO 2039-2	HRm	85
Heat distortion temperature HDT	ISO 75-2	°C	> 200
Tracking resistance CTI	IEC 112	V	600
Surface resistivity	IEC 93	Ω	10 <sup>14</sup>
Arc resistance	ASTM D 495	s	≥180
Glow wire	IEC 695-2-1	°C	960
Flammability	UL 94	Class / mm	V0 / 3 mm

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



## Storage and processing conditions

Storage	in a dry place at 15-25°C, out of direct sunlight
Moulding time	30 s/mm
Moulding pressure	76 - 110 bar
Moulding temperature	140 - 160°C

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