

## Technical data sheet

### BMC RF 500/18

**BMC RF 500/18** 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 mechanical properties and good fire protection grade are combined into the **BMC RF 500/18**.

**BMC RF 500/18** 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
Quantity of glass	ISO 11667	%	18
Linear shrinkage	ISO 2577	%	0,1
Density	ISO 1183	g/cm <sup>3</sup>	1,8
Water absorption	ISO 62 Met. 1	%	≤ 0,2
Flexural strength	ISO 14125A	MPa	90
Flexural modulus	ISO 14125A	MPa	9.500
Impact strength (Charpy)	ISO 179	KJ/m <sup>2</sup>	25
Rockwell hardness ( M scale )	ISO 2039-2	HRm	80
Heat distortion temperature HDT	ISO 75	°C	> 200
Surface resistivity	IEC 93	Ω	10 <sup>14</sup>
Volume resistivity	IEC 93	Ω cm	10 <sup>14</sup>
Tracking resistance CTI	IEC 112	V	600
Arc resistance	ASTM D 495	s	≥180
Glow wire GWFI	IEC 695-2-1	°C	960
Flammability	UL 94	Class / mm	V0 / 3,2

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	60 - 110 bar
Moulding temperature	140 - 160°C

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