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Technical data sheet

BMC RF 9/20

BMC RF 9/20 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 railway electrical application. Good mechanical properties and good fire protection grade are combined into the **BMC RF 9/20** .
BMC RF 9/20 complies with UNI CEI 11170-3. **BMC RF 9/20** 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		%	20
Linear shrinkage	ISO 2577	%	0,1
Density	ISO 1183	g/cm^3	1,8
Water absorption	ISO 62 Met. 1	%	$\leq$0,2
Flexural strength	ISO 14125A	MPa	90
Flexural modulus	ISO 14125A	MPa	10.000
Impact strength (Charpy)	ISO 179	KJ/m^2	30
Rockwell hardness	ISO 2039-2	HRm	80
Heat distortion temperature HDT	ISO 75	°C	$\geq$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	$\geq$180
Ignitability to direct impingement of flame	ISO 11925-2	30 s	Fs$\leq$150 mm
Reaction to fire	NF F 16-101	Class	I2
Smoke index	NF F 16-101	Class	$\leq$ F1
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

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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