



SMC412-R

Product Name: SMC412-R

Date issued: 13.11.2019

Version: 2

Product description:

SMC412-R is a sheet molding compound base on unsaturated polyester resin reinforced with glass fibers and mineral fillers. SMC412-R is used for electrical purpose applications especially in **Railway** industry such as third rail support parts and insulator rolls. The anti-flammability meets the demands of standard UL94 category V0, 4mm. The glass fiber content combines good moldability with good mechanical strength. These compounds mold to parts with good surface quality. The product is high temperature medium pressure compression molded and it is recommended to work with Chrome plate tools. The product contains no halogens or heavy metals.

Other colors and other flammability resistance would be available based on customer demand.

Physical Properties:

Properties	Range	Unit	TM
Density	1.80 ±0.05	g/cm ³	ISO 1183
Glass fiber content	30±2	%	ISO 1172
Flexural Strength	160	MPa	ASTM D790
Flexural Modulus	9000	MPa	ASTM D790
Impact Strength	60	KJ/m ²	ISO 179
Tensile Strength	60	MPa	ASTM D638
HDT	>200	°C	ASTMD648
Water Absorption	<0.5	%	ISO 62
Curing Time	60	Sec/mm	-
Molding Temperature	140-160	°C	-
Molding Pressure	80-100	Bar	-
Shrinkage	0.14±0.03	%	BS 2782-6
Color	7038	RAL	RAL
Volume resistivity	10 ¹⁵	Ohm×cm	IEC60063
Di-electric strength	10-12	KV/mm	IEC60243-1
Comparative tracking index	600	CTI	IEC60112
Fire Retardancy	4, V0	mm & Level	UL94

Form of supply:

SMC 412-R is wrapped in styrene tight film and supplied on rolls holding about 100-150 kg. It is possible to place in cardboard or wooden boxes. Various kind of packaging is available. For further details, call our technical service team.

Storage:

Recommended storage temperature is between 10-20 °C and the product should be kept away from direct sunlight.

Contact information

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