

## Technical data sheet

### SMC 4500 R23

**SMC 4500 R23** is a sheet moulding compound based on an unsaturated polyester resin reinforced with glass fibres. This SMC has been developed for sink and tray application. **SMC 4500 R23** joints good mechanical properties with stain and chemical resistance. **SMC 4500 R23** has been studied to show a decorative effect on the part moulded. **SMC 4500 R23** is formulated according to RoHS, REAC regulation (SVHC) and WEEE European legislation.

**Material code ISO 11469 >UP-(MD+GF)65<**

#### Typical material properties

CHARACTERISTICS	METHOD	UNIT	VALUE
Quantity of glass	ISO 11667	%	23
Linear shrinkage	ISO 2577	%	0,1
Density	ISO 1183	g/cm <sup>3</sup>	1,7
Water absorption	ISO 62 Met. 1	%	≤ 0,2
Flexural strength	ISO 14125A	MPa	130
Flexural modulus	ISO 14125A	MPa	9.500
Impact strength (Charpy)	ISO 179	KJ/m <sup>2</sup>	50
Heat distortion temperature HDT	ISO 75	°C	> 200
Rockwell hardness ( M scale )	ISO 2039-2	HRm	80

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	40 s/mm
Moulding pressure	70 - 110 bar
Moulding temperature	140 - 160°C

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