

## Technical data sheet

### SMC S 8010

**SMC S 8010** is a sheet moulding compound based on an blend of different thermoset polymers reinforced with glass fibres. **SMC S 8010** has been developed for structural parts. **SMC S 8010** joints excellent mechanical and thermal properties. **SMC S 8010** is formulated according to RoHS, REAC regulation (SVHC) and WEEE European legislation.

#### Typical material properties

CHARACTERISTICS	METHOD	UNIT	VALUE
Linear shrinkage	ISO 2577	%	0,0
Density	ISO 1183	g/cm <sup>3</sup>	1,65
Water absorption	ISO 62 Met. 1	%	≤ 0,2
Flexural strength	ISO 14125A	MPa	420
Flexural modulus	ISO 14125A	MPa	18.000
Impact strength (Charpy)	ISO 179	KJ/m <sup>2</sup>	240
Poisson's ratio	ASTM D 638	----	0,29
Heat distortion temperature HDT	ISO 75	°C	> 240
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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