

Technical Data Sheet

SMC 6004

UNION, as a professional in the resin and fibreglass industry, sincerely recommends our SMC (sheet moulding compound) product range. UNION cherishes any opportunity to customise and protect your exclusive SMC formulations. Trial orders and samples are available, please don't hesitate to contact us.

1. Features and main uses:

On the basis of unsaturated polyester resins, and glass fibre reinforced (Content 30%), Our SMC 6004 has excellent physical and mechanical properties with uniform hardness, good peelability and is convenient to cut. We will customize the RAL color for you. It neither contains any halogens nor any of the candidate substances in the REACH SVHC list.

The pressed products of SMC 6004 are featured with non-shrinkage, high tinting strength, high gloss level, etc. SMC 6004 is mainly used in the structural parts of vehicle parts, medium parts, and grade A surface products.

2. Material properties :

Item	Standard (GB)	Standard (ISO)	Unit	Measured value
Glass Fiber Content	GB15568-2008	EN ISO 1172	%	30
Density	GB1463-88	ISO1183	g/cm ³	1.78
Linear Shrinkage	GB15568-2008	ISO 2577	%	0
Water Absorption	GB1462-88	ISO 62	%	≤0.2
HDT	GB1634-79	EN ISO 75-2	°C	≥200
Flexural Strength	GB1449-83	EN ISO 14125	MPa	180
Tensile Strength	GB1447-83	EN ISO 527-4	MPa	70
Impact Strength	GB1451-83	EN ISO 179	KJ/m ²	70

NOTE:

1. The typical data listed in this report, for more product information, please consult the technical data report.
2. The Company reserves the right to modify the index. Technical data are subject to update with prior notice.

3. Suggested pressing process : (for reference)

1. Pressing time: In principle, the product thickness is per 1mm about 1min. It can be adjusted according to the actual situation.

2. Pressing temperature: Front (bright side of the product)/reverse side: 146- 150°C/138- 142°C .

Note: This temperature is the mold surface temperature.

3. Molding pressure: greater than 100 Kgf/cm².

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4. Storage conditions, shelf life:

1. Our packaging is: 1 ton/pallet ($\pm 5\%$ difference), sealed with multi-layer PP film packaging, plus aluminium-plated film to prevent the Light Source. The outer layer is packed in multi-layer cartons and fumigation-free pallets. For other packing , please contact our technicians.



2. When transporting, it should comply with the regulations on transportation safety in Chapter 5 of the State Council's " Regulations on the Safety Management of Hazardous Chemicals". Protect from the sun and rain.

3. Stored in and keep in a cool, ventilated and dry place below 25°C, avoid fire, keep away from heat and radiation sources, avoid water and prohibit exposure to sunlight and open storage. Under the above storage conditions, from the date of manufacture, SMC storage period is 5 months.

5. Application pictures:

