

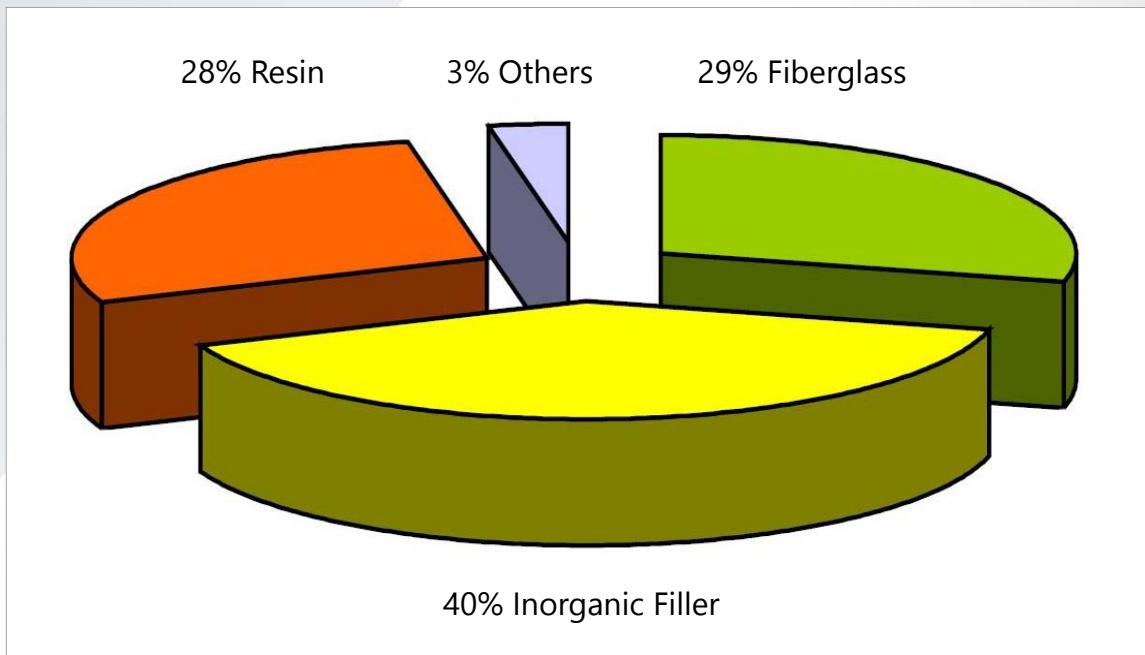
SMC



COMPOSITES



FORENGE



SMC (Sheet Moulding Compound) is used in hot press compression moulding for the production of large parts with high mechanical properties and excellent surface finish.

The composite material in a sheet form sandwiched between thin polythene films primarily consists of thermosetting resin, chopped glass fibre reinforcement and fillers. The compacting process amalgamates the resin paste, fillers, additives and reinforcements.

Designed to offer superior mechanical properties, excellent electrical and fire protecting characteristics with a 'Class A' surface and low density features.

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SMC MATERIAL GRADES

Sl. #	Material Classification	Applications	GRADE	Fiber Content	Moulding Temperature	Specific Gravity	Shrinkage	Tensile Strength	Impact Strength	Flexural Strength	Heat Distortion Temperature	Fire Retardancy	Glow Wire Test	Volume Resistivity	Surface Resistivity
1	General Purpose	General purpose composite material for Housing, Covers and functional components with minimal fire retardancy.	FS0100	25±2%	145-160	1.7-1.95	0.1-0.2	85	60	175	240	HB	850	1.0*10 ¹²	1.0*10 ¹²
2	Heat and Corrosion Resistant	Composite material intended for use in Sanitary, cookware, appliance and indirect food contact applications.	FS0200	21±2%	145-160	1.7-1.95	0.1-0.2	75	60	150	240	HB	850	1.0*10 ¹²	1.0*10 ¹²
3	UV Stable	These materials are suitable for use in applications requiring superior colorfastness & physical property retention upon exposure to UV and visible light.	FS0300	25±2%	145-160	1.7-1.95	0.1-0.2	85	60	175	240	-	850	1.0*10 ¹²	1.0*10 ¹²
4	Low Density Paintable	Light weight with a Class-A surface suitable for painting, which is use in exterior body applications on cars, LCV's and trucks.	FS0400	27±2%	145-160	1.7-1.95	0-0.05	80	60	170	240	-	960	1.0*10 ¹²	1.0*10 ¹²
5	Corrosion Resistant	These composites are formulated to meet the strict performance requirements of pumps, pipe flanges underground application that are impacted by corrosive environments.	FS0500	30±2%	145-160	1.7-1.95	0.1-0.2	95	80	220	240	-	850	1.0*10 ¹²	1.0*10 ¹²
6	Dielectric & Flame Resistant	Composts for electrical applications that possesses very good Dielectric properties and Flame retardancy.	FS0600	25±2%	145-170	1.7-1.95	0.1-0.2	85	60	175	240	V0	960	1.0*10 ¹²	1.0*10 ¹²



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