



Product Family : IDIPop - Sheet Molding Compound (SMC), Mineral Molding Compound (MMC)

Product Description : The material is a composite based on thermosetting resin, mineral filler and reinforced with fibers (SMC)
Thermosetting material based on unsaturated polyester resin, reinforced with glass fibers and modified by special mineral fillers (MMC)

Material properties		SMC	MMC
Aspect	Direct	Mass pigmented or/and with glitters PIMC	Pigmentable granit or marble stone aspect No
	With gel coat		
Physical	Density <i>ISO 1183 (g/cm³)</i>	1.60 to 1.80	1.80
	Shrinkage <i>ISO 2577 (%)</i>	0.05 to 0.15	0.15
Mechanical	Flexural strength <i>EN ISO 14125 (MPa)</i>	120	60
	Flexural modulus <i>EN ISO 14125 (MPa)</i>	9000	10000
	Charpy impact regulation <i>EN ISO 179 (kJ/m²)</i>	50	10
Electrical	Combined insulation resistance <i>CEI 60167 (Ohm)</i>	>1.10E13	>1.10E13
	Comperative Tracking Index <i>CEI 60112 (V)</i>	CTI600	CTI600
	Volume resistivity <i>CEI 60093 (Ohm.cm)</i>	>1.10E12	>1.10E12
	Surface resistivity <i>CEI 60093 (Ohm/square)</i>	>1.10E14	>1.10E14
	Volume dielectrical rigidity <i>CEI 60243-1 (kV/mm)</i>	>10	>10

The information on this sheet is a guide. The stated values reflect an average of several tests conducted on IDI CI Europe's goods. These values were obtained under ideal conditions and may not be replicated in any particular test, part, or application. Because the values achieved in actual parts depend considerably on part design, molding conditions, and testing methods, no guarantee is made or implied regarding values to be obtained in any specific test, part, or application. IDI CI Europe makes no warranty or representation as the suitability of any of its goods for use in any application. IDI CI Europe relies on customer to conduct its own tests and judge for itself the suitability of IDI CI Europe's goods.