



Product Family : IDILight - Sheet Molding Compound (SMC), Bulk Molding Compound (BMC)

Product Description : The material is a composite based on thermosetting resin, mineral filler and reinforced with fibers

Material properties		SMC			BMC
		Class B	Top Class A	Top Class A	
Aspect	Color	Natural	Natural	Natural	Natural
Physical	Density <i>ISO 1183 (g/cm3)</i>	1.5	1.3	1.5	1.90 to 2.05
	Shrinkage <i>ISO 2577 (%)</i>	-0.05	-0.05	-0.07	-0.1 to 0.0
	Glass fibers content %	37	30	28	14
Mechanical	Flexural strength <i>EN ISO 14125 (MPa)</i>	160	115	155	110
	Flexural modulus <i>EN ISO 14125 (MPa)</i>	8300	7000	8800	13000
	Charpy impact resistance <i>EN ISO 179 (kJ/m²)</i>	80	70	70	20
	Heat distortion temperature <i>EN ISO 75-2 (°C)</i>	>200	>200	>200	>200
Electrical	Surface resistivity <i>CEI 60093 (Ohm/square)</i>	>1.10E14	>1.10E14	>1.10E14	>1.10E14
Fire resistance	Fire resistance <i>FMVSS 302 - ISO 3795 (mm/min)</i>	<100	<100	<100	<100
Others	Water absorption <i>ISO 62 method 1</i>	<0.5	<0.5	<0.5	<0.5

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