

PRODUCT DESCRIPTION :
SMC & BMC with fire retardancy for railway application (EN 45 545)

Material properties		SMC			BMC	
		95LS15000	66LS1377B	35ST14724	94LS25712	BMC 24655
Aesthetic	Color	Naturelle	Grise	Grise	Grise	Grise
Physical	Density <i>ISO 1183 (g/cm³)</i>	2.0	1.8	1.9	1.81	1.68
	Shrinkage <i>ISO 2577 (%)</i>	0.10	0.13	0.11	0.1	0.18
Mechanical	Flexural strength <i>EN ISO 14125 (MPa)</i>	170	190	200	70	110
	Flexural modulus <i>EN ISO 14125 (MPa)</i>	11 500	11 800	12 000	12 100	10 900
	Heat distortion temperature <i>EN ISO 75-2 (°C)</i>	>200	>200	>200	>200	>200
Electrical	Comperative Tracking Index (CTI) <i>CEI 60112 (V)</i>	600			600	
	Electrical strength <i>CEI 60243-1 (kV/mm)</i>	>10			>10	
	Surface resistivity <i>CEI 60093 (Ohm/carré)</i>	>1.10E14			>1.10E14	
Fire retardancy	Indice Limite d'Oxygène <i>EN ISO 4589-2 (%)</i>	>99	>40	>50	>60	/
	Classement feu fumée <i>NFP 92-501/ NFX10702-70100/NFF16101 (M&F)</i>	/	M2F1	M1F0	M1F1	/
	Resistance Feu (ferroviaire) <i>EN45545 (R & HL)</i>	R1 HL3	R22 HL2	R1 HL2	R22 HL2 R23 HL3	R22 HL2 R23 HL3
Other	Water absorption <i>ISO 62 méthode 1</i>	<0.5	<0.5	<0.5	<0.5	<0.5

The information on this sheet is a guide. The stated values reflect an average of several tests conducted on IDI Composites 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 Composites Europe makes no warranty or representation as to the suitability of any of its goods for use in any application. IDI Composites Europe relies on customer to conduct its own tests and judge for itself the suitability of IDI Composites Europe's goods.

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