

Our  products

Low-shrink SMC based on unsaturated polyester or, for higher chemical resistance, vinylester resin. The product is reinforced with glassfibres and contains mineral filler. The product allows a short curing time together with a good flow. The product is developed for hot compression moulding.

properties of the product			<i>F1-LS/30</i>	<i>F5-LS/30</i>	<i>F6-LS/20</i>	<i>F7-LS/20</i>	<i>F17-LS/20</i>
<i>application</i>			mechanical parts	mechanical parts high chemical resistance	electrical applications (ex: lighting)	electrical applications (ex: lighting) fire resistance improved	electrical applications (ex: lighting) high fire resistance
<i>physical properties</i>							
<i>specific weight</i>	<i>kg/dm<sup>3</sup></i>		1,67	1,69	1,75	1,75	1,9
<i>shrinkage</i>	<i>%</i>		0,07	0,16	0,1	0,1	0,01
<i>fibreglass</i>	<i>%</i>		30	30	20	20	20
<i>colour (*)</i>			yellow, grey	black	grey (ral 7035)	grey (ral 7035)	natural
<i>Mechanical properties</i>							
<i>bending strength</i>	<i>MPa</i>	<i>ISO 178</i>	170	181	162	162	155
<i>e-modulus from bending strength</i>	<i>GPa</i>	<i>ISO 178</i>	10,5	10,8	11,8	11,8	10,7
<i>tensile strength</i>	<i>MPa</i>	<i>ISO 3268</i>	98	86	57,5	57,5	65
<i>e-modulus from tensile strength</i>	<i>GPa</i>	<i>ISO 3268</i>	12,6	13,2	13,2	13,2	11,3
<i>charpy impact strength</i>	<i>KJ/m<sup>2</sup></i>		47	38	27	27	36
<i>fire comportement</i>							
<i>UL approval</i>		<i>UL94(1,4mm)</i>					5v
<i>Glow wire test</i>	<i>°C</i>	<i>IEC60695-2-11</i>			750	850	
<i>Limiting oxygen index</i>	<i>%</i>		22	22	18	22	70
<i>thermal properties</i>							
<i>coefficient of linear expansion</i>	<i>k<sup>-1</sup></i>		2.10 <sup>-5</sup>	2.10 <sup>-5</sup>	2.10 <sup>-5</sup>	2.10 <sup>-5</sup>	2.10 <sup>-5</sup>
<i>using conditions</i>							
<i>maximum storage time</i>			<i>30 days (at 20°C maximum)</i>				
<i>moulding temperature</i>	<i>°C</i>		140-160	140-160	140-160	140-160	140-160
<i>curing time (3 mm)</i>	<i>sec</i>		25	38	32	32	75
<i>moulding pressure</i>	<i>bars</i>		80	80	80	80	100
<i>sheet width</i>	<i>mm</i>		1480	1480	1480	1480	1480

(\*) other colours available on request