

Low-shrink SMC based on unsaturated polyester or, for higher chemical resistance, vinylester resine. 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>F18-LS20(f1)</i>	
application		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	
physical properties							
<i>specific weight</i>	kg/dm ³	1,67	1,69	1,75	1,75	1,9	
<i>shrinkage</i>	%	0,07	0,16	0,1	0,1	0,01	
<i>fibreglass</i>	%	30	30	20	20	20	
<i>colour (*)</i>		yellow, grey	black	grey (ral 7035)	grey (ral 7035)	natural	
Mechanical properties							
<i>bending strength</i>	MPa	ISO 178	170	181	162	162	155
<i>e-modulus from bending strength</i>	GPa	ISO 178	10,5	10,8	11,8	11,8	10,7
<i>tensile strength</i>	MPa	ISO 3268	98	86	57,5	57,5	65
<i>e-modulus from tensile strength</i>	GPa	ISO 3268	12,6	13,2	13,2	13,2	11,3
<i>charpy impact strength</i>	KJ/m ²		47	38	27	27	36
fire comportement							
<i>UL approval</i>	UL94(1,4mm)					5v	
<i>Glow wire test</i>	°C	IEC60695-2-11			750	850	
<i>Limiting oxygen index</i>	%		22	22	18	22	70
thermal properties							
<i>coefficient of linear expansion</i>	k ⁻¹		2.10 ⁻⁵	2.10 ⁻⁵	2.10 ⁻⁵	2.10 ⁻⁵	2.10 ⁻⁵
using conditions							
<i>maximum storage time</i>			30 days (at 20°C maximum)				
<i>moulding temperature</i>	°C		140-160	140-160	140-160	140-160	140-160
<i>curing time (3 mm)</i>	sec		25	38	32	32	75
<i>moulding pressure</i>	bars		80	80	80	80	100
<i>sheet width</i>	mm		1480	1480	1480	1480	1480

(*) other colours available on request

The manufacturer reserves the right to alter specifications and designs without notice.