

5520

SMC Low profile Vinylester

Temporary Technical Data Sheet

Update: June 2019

Description :

5520 is a low density SMC reinforced with chopped glass fibres (25 mm). 5520 is a vinylester resin SMC with high mechanical properties.
5520 is a black pigmented SMC.

Moulding features (*) :

	Unit	Test method
Reactivity		ISO 12114
• Moulding T°C :	°C	145
• Thickness :	mm	4.6
• Max exothermic time:	s	73
Density		1.15 NFT 51063
Shrinkage	%	0.02 NF EN 1842

(*)Compression moulding without flow / Average on 1 pilot productions

Use recommendations :

High temperature between 140°C and 150°C.
Pressure between 55 and 85 bars.
Cure time 25 sec/mm at 145°C.

Application :

Inner or outer part for truck and automotive applications

COMPOSITION

Product nature	Unit	Ratio
Glass fibres content	%	30
Resins content	%	29.6
Fillers content	%	37.3
Recycled Powder	%	0
Other products content	%	3.1

APPEARANCE

	Unit	
Packaging :	kg	Roll or zig-zag box
SMC width :	cm	148
Material support :	-	Coex
Surface weight :	kg/m ²	3.5
Colour		Grey

MECHANICAL PROPERTIES WITHOUT FLOW AT 23 °C

Moulding conditions		
Temperature	°C	150
Thickness	mm	4.6
Curing time	sec	110
Covering	%	100
Part size	mm	250X120
Layers		2

	Unit	Test method
Flexural test (*)		ISO 178
- Breaking stress	MPa	150
- Elastic modulus	MPa	7000
- Deviation at break	mm	6
Impact test (Charpy)(**)	kJ/m ²	70 ISO 179
Tensile test (***)		ISO 527
- Breaking stress	MPa	75
- Elastic modulus	MPa	8500
- Elongation at break	%	1.5

(*) Average on 1 pilot production

(**)Average on 1 pilot production

(***)Average on 1 pilot production

MECHANICAL PROPERTIES WITH FLOW AT 23 °C

Moulding conditions		
Temperature	°C	157/162
Thickness	mm	4
Curing time	sec	90
Covering	%	38
Part size	mm	700X300
Layers		4

	Unit	Perp/Para	Test method
Flexural test(*)			ISO 178
- Breaking stress	MPa	ND/ND	
- Elastic modulus	MPa	ND/ND	
- Deviation at break	mm	ND/ND	
Tensile test (**)			ISO 527
- Breaking stress	MPa	ND/ND	
- Elastic modulus	MPa	ND/ND	
- Elongation at break	%	ND/ND	

(*) Average the first pilot production

(**)Average the first pilot production

OTHER PROPERTIES

	Unit	Test method
HDT-A	°C	>230 ISO 75-2
Burning Speed	mm/min	<80 ISO3795/FMVS302
CLTE	10 ⁻⁶ K	10 - 30

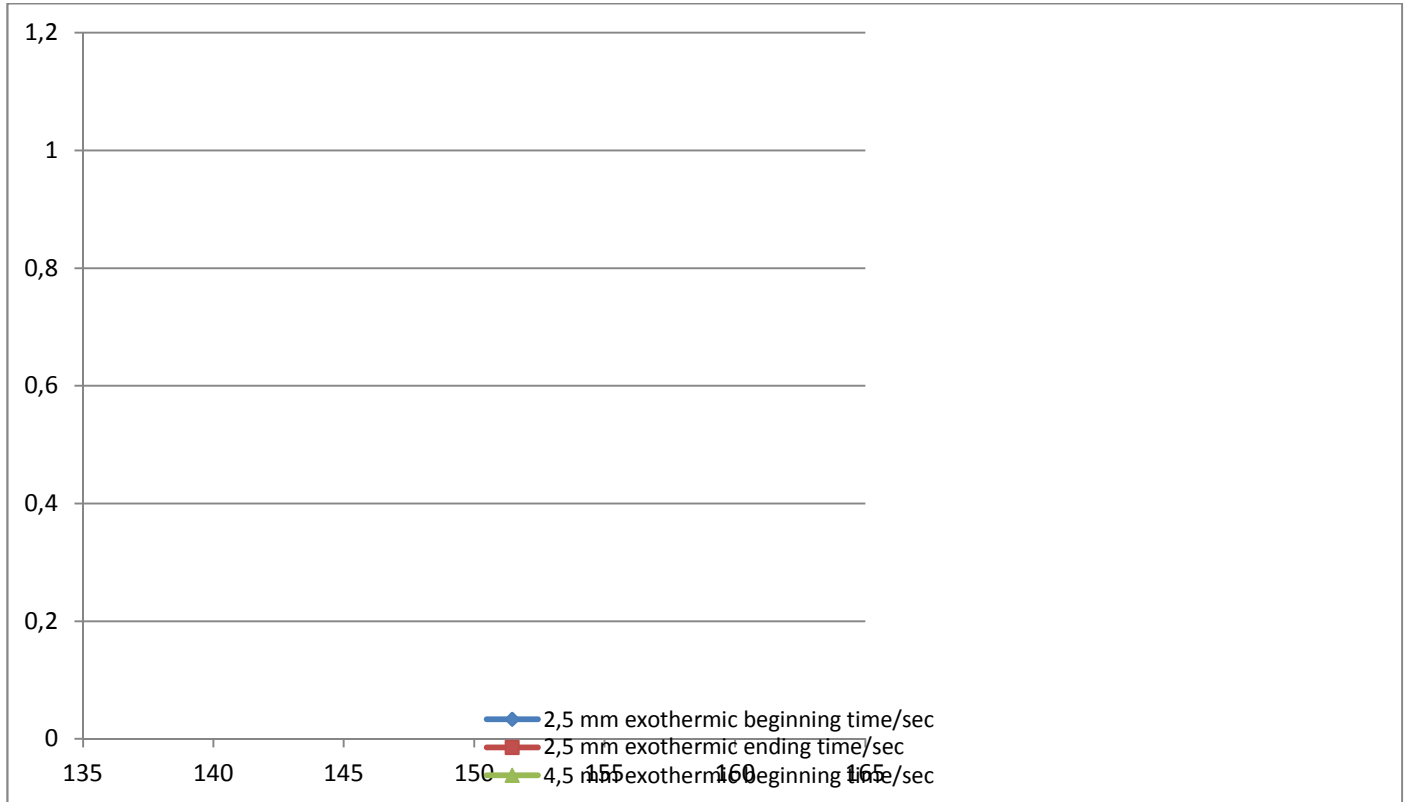
Mixt Composites Recyclables

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The reactivity datas below are given as a technical information.

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Reactivity :



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The updating of the technical information is not systematically given to our customers. The information indicated in this data sheet are based on lab data. The different values are given honestly and do not represent, in any case, an obligation for MCR.