



SMC 5020

SMC Low Profile Polyester

TEMPORARY Technical Data Sheet

Update : October 2019

Description :

5020 is a SMC reinforced with chopped glass fibres (25 mm).
5020 is a black pigmented SMC with medium mechanical properties.
5020 have good thermal and surface resistance, 5020-43 resists at domestic usual chemical products.

Moulding features (*) :

	Unit	Test method
Reactivity		ISO 12114
• Moulding T°C :	°C	145
• Thickness :	mm	2.5
• Cure time :	s	44
Density		NFT 51063
Shrinkage	%	NF EN 1842

(*) Compression moulding without flow

Use recommendations :

High temperature between 145°C and 155°C.
Pressure between 60 and 120 bars

Application :

Sanitary

COMPOSITION

Product nature	Unit	Ratio
Glass fibres content	%	17
Resins content	%	32
Fillers content	%	48
Other products content	%	3

APPEARANCE

	Unit	
Rolls :	kg	600/1500/Cardboardbox
SMC width :	cm	148
Material support :	-	coex
Surface weight :	kg/m ²	5.0
Colour		Black

MECHANICAL PROPERTIES WITHOUT FLOW AT 23 °C

Moulding conditions

Temperature	°C	145
Thickness	mm	2.5
Curing time	sec	60
Covering	%	100
Part size	mm	250X120
Layers		1

	Unit	Test method
Flexural test (*)		ISO 178
- Breaking stress	MPa	100
- Elastic modulus	MPa	5500
- Deviation at break	mm	4.5
Impact test (Charpy)(**)	kJ/m ²	50
Tensile test (***)		ISO 527
- Breaking stress	MPa	ND
- Elastic modulus	MPa	ND
- Elongation at break	%	ND

(*) Average on 1 Laboratory production

(**)Average on 1 Laboratory production

(***) non available during the Laboratory phase

MECHANICAL PROPERTIES WITH FLOW AT 23 °C

Moulding conditions

Temperature	°C	ND
Thickness	mm	ND
Curing time	sec	ND
Covering	%	ND
Part size	mm	ND
Layers		ND

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

(*)Average on 1 Laboratory production

(**)Average on 1 Laboratory production

Mixt Composites Recyclables

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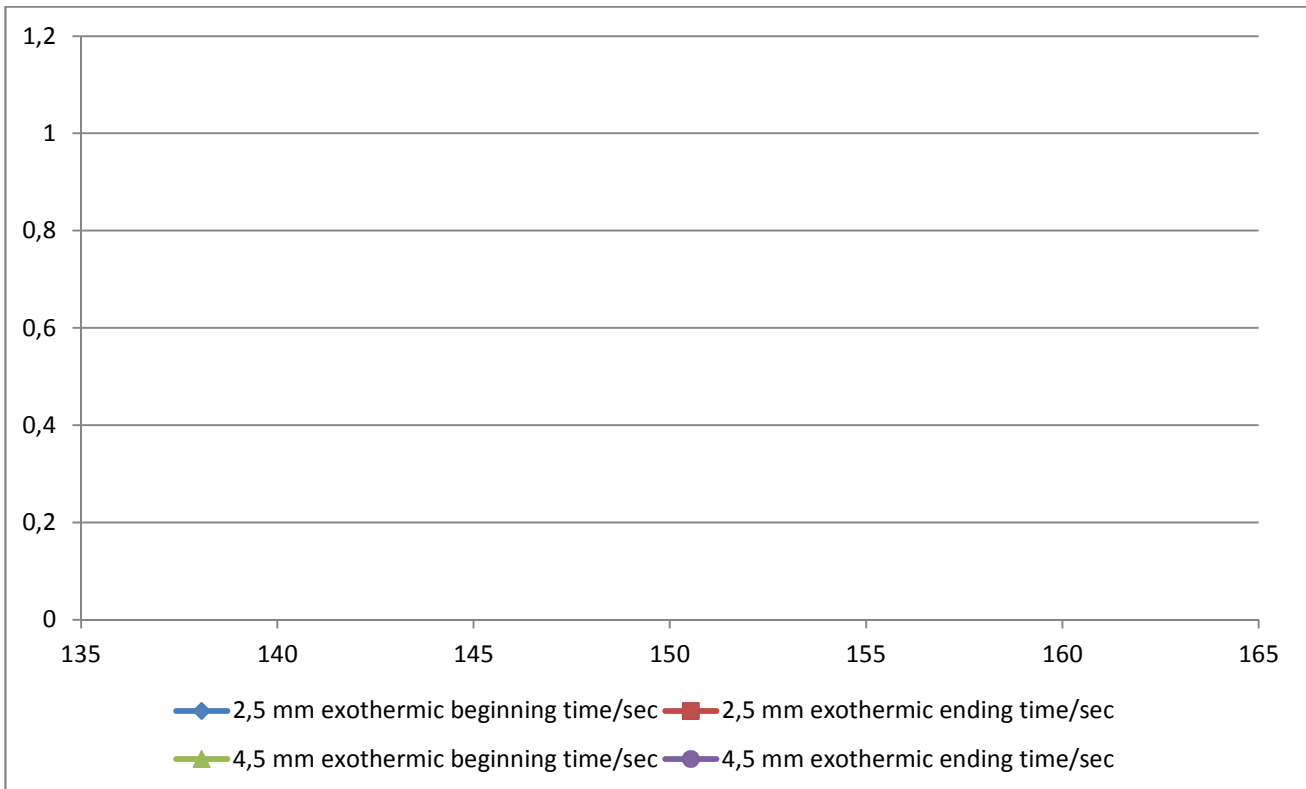
OTHER PROPERTIES

	<i>Unit</i>		<i>Test method</i>
HDT-A	°C	>230	ISO 75-2
Burning Speed	mm/min	<80	ISO3795/FMVS302
CLTE	10 ⁻⁵	?	?

Reactivity :

The reactivity datas below are given as a technical information.

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