



SMC 0135

SMC Low Shrink Polyester

Technical Data Sheet

Update: June 2019

Description :

0135 is a pigmented LS SMC reinforced with chopped glass fibres (50% 25mm + 50% 50mm) designed for electrical box application. 0135 is beige pigmented with good fire, electrical and ageing performances.

Moulding features (*) :

	Unit		Test method
Reactivity			ISO 12114
• Moulding T°C :	°C	145	
• Thickness :	mm	3,2	
• Cure time :	s	29	
Density		1.85	ISO 1183
Shrinkage	%	0,08	NF EN 1842

(*) Compression moulding without flow

Use recommendations :

High temperature from 145°C to 150°C under high pressure around 80 bars

Application :

Electrical box

COMPOSITION

Product nature	Unit	Ratio
Glass fibres content	%	20
Resins content	%	27.1
Fillers content	%	51.2
Other products content	%	1.7

Remark: contains TiO₂; use chromated tool is recommended

APPEARANCE

	Unit	
Rolls :	kg	1270
SMC width :	cm	148
Material support :	-	COEX
Surface weight :	kg/m ²	6.25
Colour		BEIGE 3225 AFNOR

MECHANICAL PROPERTIES WITHOUT FLOW AT 23 °C

Moulding conditions

Temperature	°C	145
Thickness	mm	3.1
Curing time	sec	44
Covering	%	100
Part size	mm	250X120
Layers		1

	Unit		Test method
Flexural test (*)			ISO 178
- Breaking stress	MPa	135	
- Elastic modulus	MPa	9000	
- Deviation at break	mm	3.8	
Impact test (Charpy)(**)	kJ/m ²	52	ISO 179
Tensile test (***)			ISO 527
- Breaking stress	MPa	45	
- Elastic modulus	MPa	10000	
- Elongation at break	%	1,4	

(*) Average on first industrial productions

(**) Average on first industrial productions

(***) Average on first industrial productions

MECHANICAL PROPERTIES WITH FLOW AT 23 °C

Moulding conditions

Temperature	°C	145/150
Thickness	mm	3,8
Curing time	sec	44
Covering	%	38
Part size	mm	700X300
Layers		3

	Unit	Perp/Para	Test method
Flexural test(*)			ISO 178
- Breaking stress	MPa	100/150	
- Elastic modulus	MPa	9500/10500	
- Deviation at break	mm	3.6/3.8	
Tensile test (**)			ISO 527
- Breaking stress	MPa	37/63	
- Elastic modulus	MPa	10500/11500	
- Elongation at break	%	0.9 /1.1	

(*) Average on the first industrial production

(**) Average on the first industrial production

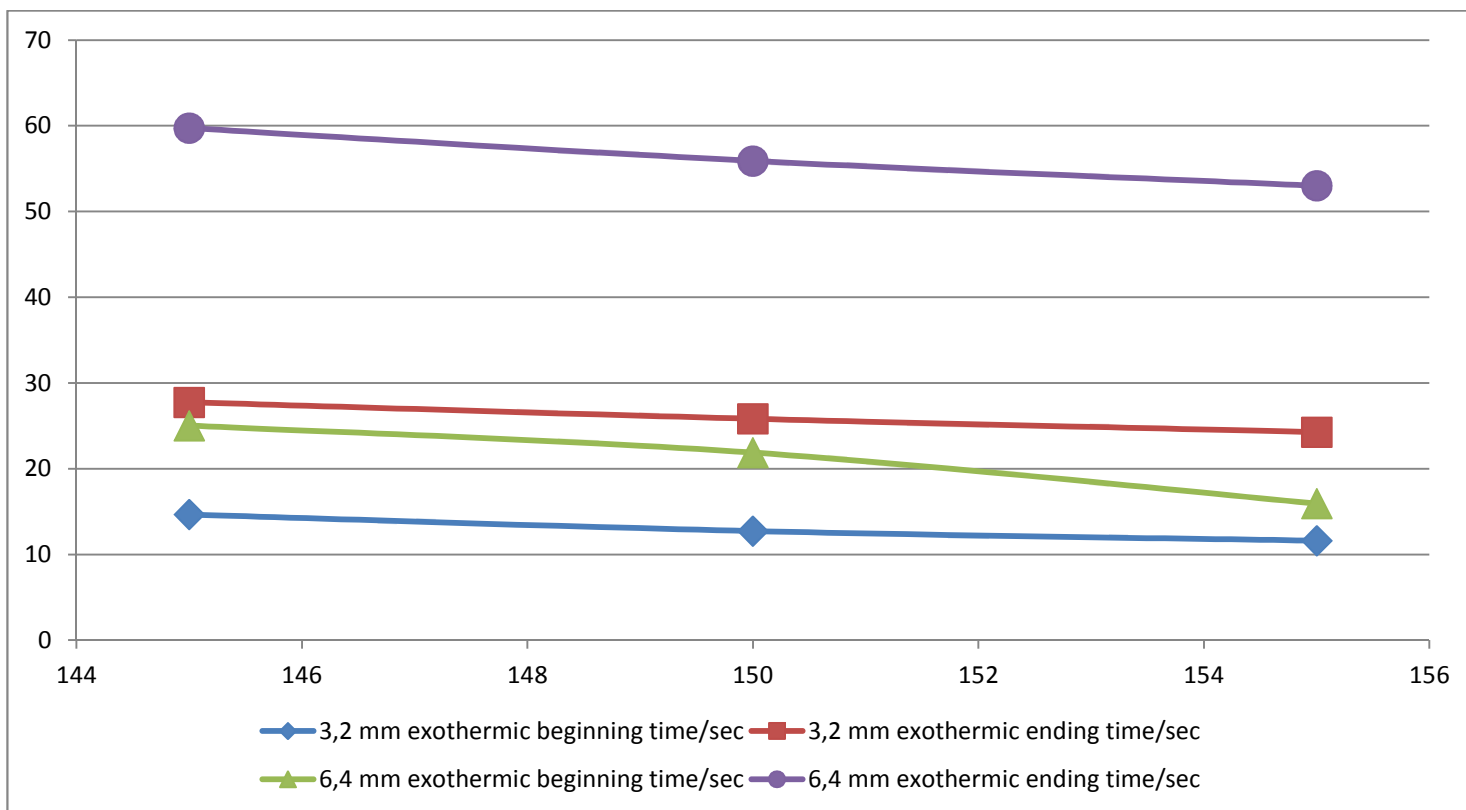
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OTHER PROPERTIES

	<i>Unit</i>	<i>Test method</i>	
Oxygen limit index	%	>23	ISO 4589-2
Incandescent filament 960°C	s	<15	NFC 20455
Combustion speed		FH1	ISO 1210
Electrical resistance	V	600	NFC 26220

Reactivity :
The reactivity datas below are given as
a technical information.



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