

# 7085

## SMC Low Profile Polyester

### Technical Data Sheet

Update : July 2015

### Description :

7085 is a SMC reinforced with chopped glass fibres (25 mm).  
7085 is a low density SMC with surface aspect.

### Moulding features (\*) :

	Unit		Test method
Reactivity			ISO 12114
• Moulding T°C :	°C	150	
• Thickness :	mm	4.5	
• Cure time :	s	65	
Density		1,50	NFT 51063
Shrinkage	%	-0,1	ISO 1842

(\*) Compression moulding without flow

### Use recommendations :

High temperature between 145°C and 155°C.  
Pressure between 60 and 80 bars.

### Application :

Class A - Outer part for automotive applications

### COMPOSITION

Product nature	Unit	Ratio
Glass fibres content	%	31
Resins content	%	25
Fillers content	%	42
Other products content	%	2

### APPEARANCE

	Unit	
Rolls :	kg	600
SMC width :	cm	150
Material support :	-	Coex
Surface weight :	kg/m <sup>2</sup>	3,5
Colour		Natural

### MECHANICAL PROPERTIES WITHOUT FLOW AT 23 °C

Moulding conditions			
Temperature	°C	150	
Thickness	mm	4.5	
Curing time	sec	65	
Covering	%	100	
Part size	mm	250X120	
Layers		2	
		Unit	Test method
Flexural test (*)			ISO 178
- Breaking stress	MPa	150	
- Elastic modulus	MPa	8500	
- Deviation at break	mm		
Impact test (Charpy)(**)	kJ/m <sup>2</sup>	70	ISO 179
Tensile test (***)			ISO 527
- Breaking stress	MPa	ND	
- Elastic modulus	MPa	ND	
- Elongation at break	%	ND	

(\*) Average on the 8 latest production

(\*\*) Average on the 8 latest production

(\*\*\*) Average on the 0 production

### MECHANICAL PROPERTIES WITH FLOW AT 23 °C

Moulding conditions				
Temperature	°C	150/155		
Thickness	mm	3		
Curing time	sec	100		
Covering	%	36		
Part size	mm	700X300		
Layers		4		
		Unit	Perp/Para	Test method
Flexural test(*)				ISO 178
- Breaking stress	MPa	110/160		
- Elastic modulus	MPa	7100/9600		
- Deviation at break	mm			
Tensile test (**)				ISO 527
- Breaking stress	MPa	40/60		
- Elastic modulus	MPa	9100/10400		
- Elongation at break	%	1/1.1		

(\*) Average on the 3 production

(\*\*) Average on the 3 production



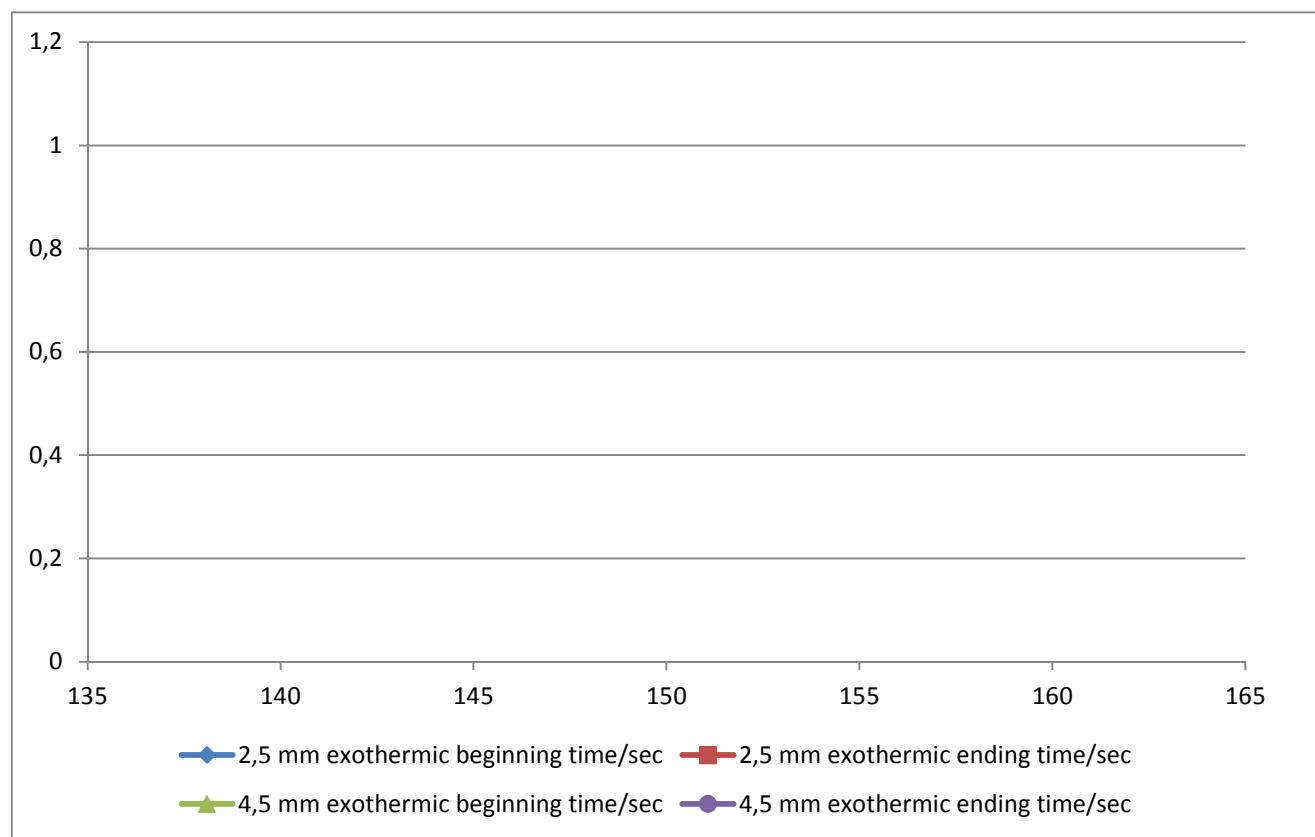
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## OTHER PROPERTIES

	<i>Unit</i>	<i>Test method</i>	
HDT-A	°C	ND	ISO 75-2
Burning Speed	mm/min	ND	ISO3795/FMVS302
CLTE	10 <sup>-6</sup>	ND	ND

## Reactivity :

**The reactivity datas below are given as a technical information.**



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