

7085 SMC Low Profile Polyester

Technical Data Sheet

Update : October 2018

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 ²	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	8000	
- Deviation at break	mm		
Impact test (Charpy)(**)	kJ/m ²	70	ISO 179
Tensile test (***)			ISO 527
- Breaking stress	MPa	ND	
- Elastic modulus	MPa	ND	
- Elongation at break	%	ND	

(*) Theoretical data – No evaluation already done

(**) Theoretical data – No evaluation already done

(***) 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	6500/9000	
- Deviation at break	mm		
Tensile test (**)			ISO 527
- Breaking stress	MPa	40/60	
- Elastic modulus	MPa	8500/10000	
- Elongation at break	%	1/1.1	

(*) Theoretical data – No evaluation already done

(**) Theoretical data – No evaluation already done

Mixt Composites Recyclables

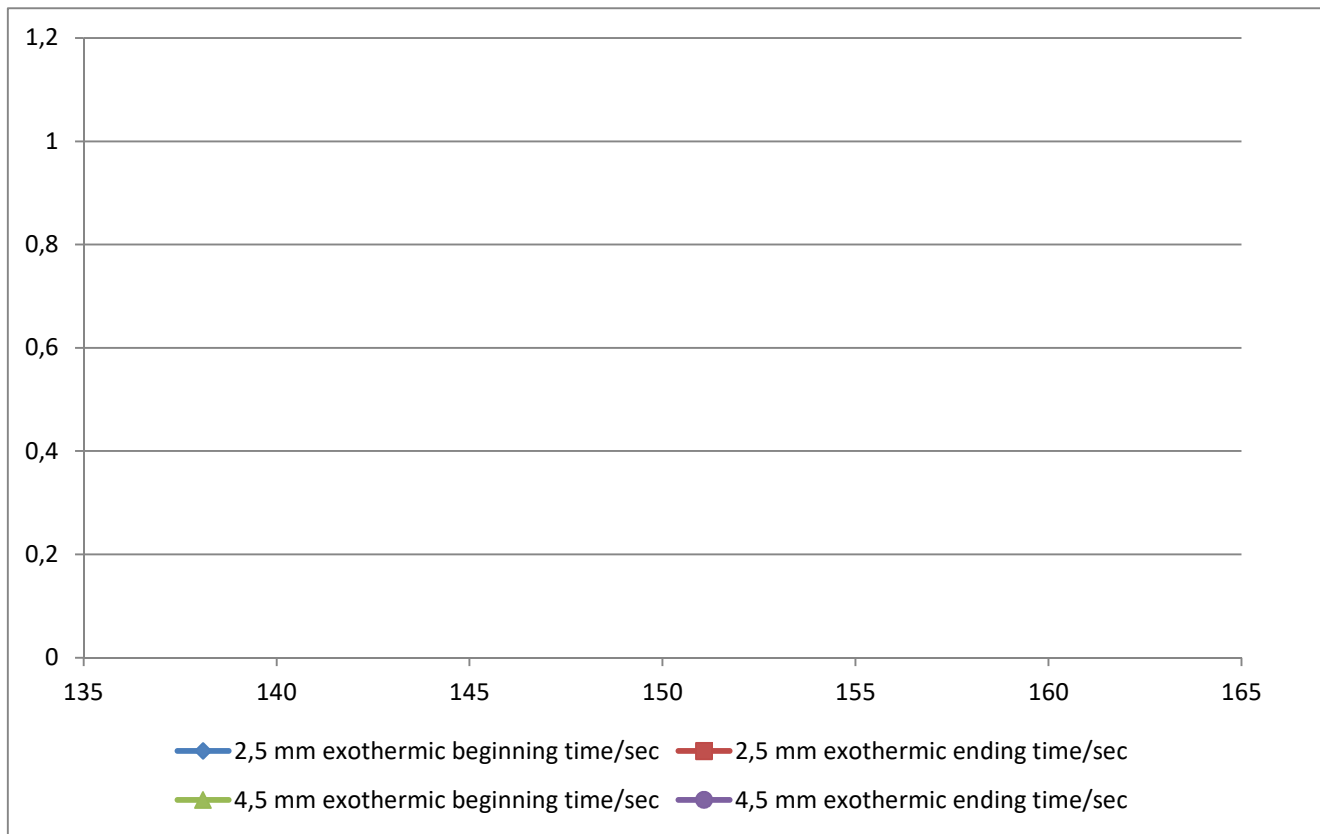
ZI les îles Féray – BP 94 07302 Tournon-sur-Rhône
Tel. : +33 4 75 07 18 18 - Fax : +33 4 75 07 11 77

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 ⁻⁶	10-20	

Reactivity :

The reactivity datas below are given as a technical information.



Mixt Composites Recyclables

ZI les îles Féray – BP 94 07302 Tournon-sur-Rhône
 Tel. : +33 4 75 07 18 18 - Fax : +33 4 75 07 11 77