

SMC 0907

SMC Low Profile Polyester

Technical Data Sheet

Update : december 2018

Description :

0907 is a SMC reinforced with chopped glass fibres (25 mm).
0907 is a non-pigmented SMC with good mechanical properties and very good surface aspect. SMC 0907 is a low density SMC

Moulding features (*) :

	Unit	Test method
Reactivity		ISO 12114
• Moulding T°C :	°C	150
• Thickness :	mm	3.4
• Cure time :	s	40
Density		1.28 NFT 51063
Shrinkage	%	-0.07 NF EN 1842

(*) Compression moulding without flow

Use recommendations :

High temperature between 145°C and 160°C.
Pressure between 60 and 80 bars

Application :

TOP Class A - Outer part for truck and automotive applications

COMPOSITION

Product nature	Unit	Ratio
Glass fibres content	%	30
Resins content	%	31
Fillers content	%	37
Other products content	%	2

APPEARANCE

	Unit	
Rolls :	kg	600/1500
SMC width :	cm	150
Material support :	-	Coex
Surface weight :	kg/m ²	2,5
Colour		Natural

MECHANICAL PROPERTIES WITHOUT FLOW AT 23 °C

Moulding conditions			
Temperature	°C	150	
Thickness	mm	3	
Curing time	sec	70	
Covering	%	100	
Part size	mm	250X120	
Layers		2	
		Unit	Test method
Flexural test (*)			
			ISO 178
- Breaking stress	MPa	70	
- Elastic modulus	MPa	4500	
- Deviation at break	%	3.0	
Impact test (Charpy)(**)	kJ/m ²	65	ISO 179
Tensile test (***)			
			ISO 527
- Breaking stress	MPa	ND	
- Elastic modulus	MPa	ND	
- Elongation at break	%	ND	

(*) Average on 1 pilot batches

(**)Average on 1 pilot batches

(***)

MECHANICAL PROPERTIES WITH FLOW AT 23 °C

Moulding conditions				
Temperature	°C	150/155		
Thickness	mm	2.5		
Curing time	sec	90		
Covering	%	38		
Part size	mm	700X300		
Layers		4		
		Unit	Perp/Para	Test method
Flexural test(*)				
				ISO 178
- Breaking stress	MPa	80/150		
- Elastic modulus	MPa	4900/7800		
- Deviation at break	%	2.7/2.7		
Tensile test (**)				
				ISO 527
- Breaking stress	MPa	30/67		
- Elastic modulus	MPa	5300/8900		
- Elongation at break	%	0.97/0.98		

(*) Average on 1 pilot batch

(**)Average on 1 pilot batch



MIXT COMPOSITES
RECYCLABLES

OTHER PROPERTIES

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