

# 0905

## SMC Low Profile Polyester

### Technical Data Sheet

Update : January 2020

### Description :

0905 is a Class A LP SMC reinforced with chopped glass fibres (25 mm).

0905 is a not pigmented SMC with a good level of aspect and a good VOC emission behaviour.

### Moulding features (\*) :

	Unit	Test method
Reactivity		ISO 12114
• Moulding T°C :	°C	150
• Thickness :	mm	3,2
• Cure time :	s	45
Density		1,91 ISO 1183
Shrinkage	%	-0,100 NF EN 1842

(\*) Compression moulding without flow

### Use recommendations :

High temperature around 150/155°C under 80 bars

### Application :

Class A - Outer part for automotive applications

### COMPOSITION

Product nature	Unit	Ratio
Glass fibres content	%	27
Resins content	%	23
Fillers content	%	47
Other products content	%	3

### APPEARANCE

	Unit	
Rolls :	kg	1500
SMC width :	cm	150
Material support :	-	COEX
Surface weight :	kg/m <sup>2</sup>	3,4
Colour		Not pigmented

### MECHANICAL PROPERTIES WITHOUT FLOW AT 23°C

Moulding conditions		
Temperature	°C	150
Thickness	mm	3,2
Curing time	sec	80
Covering	%	100
Part size	mm	250X120
Layers		2
	Unit	Test method
Flexural test (*)		ISO 178
- Breaking stress	MPa	180
- Elastic modulus	MPa	9500
- Deviation at break	mm	3,9
Impact test (Charpy)(**)	kJ/m <sup>2</sup>	85 ISO 179
Tensile test (***)		ISO 527
- Breaking stress	MPa	70
- Elastic modulus	MPa	9000
- Elongation at break	%	1,4

(\*) Average on the 20 latest production

(\*\*) Average on the 20 latest production

(\*\*\*) Average on the 3 production

### MECHANICAL PROPERTIES WITH FLOW AT 23°C

Moulding conditions			
Temperature	°C	150/155	
Thickness	mm	3	
Curing time	sec	80	
Covering	%	36	
Part size	mm	700X300	
Layers		4	
	Unit	Perp/Para	Test method
Flexural test(*)			ISO 178
- Breaking stress	MPa	130/240	
- Elastic modulus	MPa	7000/10500	
- Deviation at break	mm	3,7/3,6	
Tensile test (**)			ISO 527
- Breaking stress	MPa	60/105	
- Elastic modulus	MPa	9000/11000	
- Elongation at break	%	1,3/1,4	

(\*) Average on 1 production

(\*\*) Average on 1 production

### 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
Emissions		30	
HC(160°C/180s)	mg/m <sup>2</sup>		BMW GS97014-2

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

