

0703

SMC Low Shrink Polyester

Technical Data Sheet

Update : January 2020

Description :

0703 is a black pigmented SMC reinforced with chopped glass fibers (25 mm).
0703 is Low Shrink SMC adapted for structural parts.

Moulding features (*) :

	Unit	Test method
Reactivity		ISO 12114
• Moulding T°C :	°C	145
• Thickness :	mm	2,9
• Cure time :	s	40
Density		1,76 ISO 1183
Shrinkage	%	0,088 NF EN 1842

(*) Compression moulding without flow

Use recommendations :

Compression moulding
High temperature around from 145 to 160°C under high pressure 60 to 120 bars

Application :

Structural parts for automotive applications front end, floor,...

COMPOSITION

Product nature	Unit	Ratio
Glass fibres content	%	28
Resins content	%	27
Fillers content	%	40
Other products content	%	5

APPEARANCE

	Unit	
Rolls :	kg	600
SMC width :	cm	140 or 150
Material support :	-	PE
Surface weight :	kg/m ²	5,6
Colour		Black

MECHANICAL PROPERTIES WITHOUT FLOW AT 23 °C

Moulding conditions		
Temperature	°C	145
Thickness	mm	3
Curing time	sec	70
Covering	%	100
Part size	mm	250X120
Layers		1

	Unit	Test method
Flexural test (*)		ISO 178
- Breaking stress	MPa	180
- Elastic modulus	MPa	9500
- Deviation at break	mm	3,7
Impact test (Charpy)(**)	kJ/m ²	78 ISO 179
Tensile test (***)		ISO 527
- Breaking stress	MPa	77
- Elastic modulus	MPa	11400
- Elongation at break	%	1,6

(*) 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	70
Covering	%	36
Part size	mm	700X300
Layers		2

	Unit	Perp/Para	Test method
Flexural test(*)			ISO 178
- Breaking stress	MPa	140/230	
- Elastic modulus	MPa	8600/10700	
- Deviation at break	mm	3,6/3,3	
Tensile test (**)			ISO 527
- Breaking stress	MPa	45/100	
- Elastic modulus	MPa	11100/13200	
- Elongation at break	%	1/1,4	

(*) 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

Reactivity :

The reactivity datas below are given as a technical information.

