

# 0752

## SMC Low Shrink Polyester

### Technical Data Sheet

Update : February 2019

#### Description :

0752 is a SMC reinforced with chopped glass fibres (25 mm).  
0752 is a pigmented SMC with high mechanical properties and good surface aspect.

#### Moulding features (\*) :

	Unit		Test method
Reactivity			ISO 12114
• Moulding T°C :	°C	145	
• Thickness :	mm	3.6	
• Cure time :	s	28	
Density		1,41	NFT 51063
Shrinkage	%	0.08	ISO 1842

(\*) Compression moulding without flow

#### Use recommendations :

High temperature between 145°C and 155°C.  
Pressure between 80 and 120 bars

#### Application :

#### COMPOSITION

Product nature	Unit	Ratio
Glass fibres content	%	30
Resins content	%	34
Fillers content	%	32
Other products content	%	4

#### APPEARANCE

	Unit	
Rolls :	kg	600
SMC width :	cm	149.5
Material support :	-	Coex
Surface weighth :	kg/m <sup>2</sup>	2.7
Colour		Dark grey

#### MECHANICAL PROPERTIES WITHOUT FLOW AT 23 °C

Moulding conditions		
Temperature	°C	145
Thickness	mm	3.5
Curing time	sec	42
Covering	%	100
Part size	mm	250X120
Layers		2
	Unit	Test method
Flexural test (*)		ISO 178
- Breaking stress	MPa	190
- Elastic modulus	MPa	9000
- Deviation at break	mm	4,9
Impact test (Charpy)(**)	kJ/m <sup>2</sup>	65
Tensile test (***)		ISO 527
- Breaking stress	MPa	80
- Elastic modulus	MPa	10000
- Elongation at break	%	1.6

(\*) Average on the 20 latest production batches

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

(\*\*\*) Average on 11 production batches

#### MECHANICAL PROPERTIES WITH FLOW AT 23 °C

Moulding conditions			
Temperature	°C	145	
Thickness	mm	2.2	
Curing time	sec	65	
Covering	%	67	
Part size	mm	700X300	
Layers		2	
	Unit	Perp/Para	Test method
Flexural test(*)			ISO 178
- Breaking stress	MPa	170 / 210	
- Elastic modulus	MPa	7600 / 9600	
- Deviation at break	mm	3.3 / 3.3	
Tensile test (**)			ISO 527
- Breaking stress	MPa	70 / 90	
- Elastic modulus	MPa	9400/10300	
- Elongation at break	%	1.5 / 1.6	

(\*) Average on 12 production batches

(\*\*) Average on 12 production batches

#### Mixt Composites Recyclables

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## OTHER PROPERTIES

	<i>Unit</i>		<i>Test method</i>
HDT-A	°C	>300	ISO 75-2
Burning Speed	mm/min	<80	ISO3795/FMVS302

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

