

0687 SMC Low Profile Polyester

Technical Data Sheet

Update : February 2019

Description :

0687 is a SMC reinforced with chopped glass fibres (25 mm).
0687 is a deep black pigmented SMC with high mechanical properties and good surface aspect.

Moulding features (*) :

	Unit		Test method
Reactivity			ISO 12114
• Moulding T°C :	°C	155	
• Thickness :	mm	4.0	
• Cure time :	s	42	
Density		1,72	ISO 1183
Shrinkage	%	0.03	NF EN 1842

(*) Compression moulding without flow

Use recommendations :

High temperature around 155°C under 80 bars

Application :

Pigmented inner part for automotive applications

COMPOSITION

Product nature	Unit	Ratio
Glass fibres content	%	30
Resins content	%	28
Fillers content	%	37
Other products content	%	5

APPEARANCE

	Unit	
Rolls :	kg	1500
SMC width :	cm	147
Material support :	-	coex
Surface weight :	kg/m ²	3,8
Colour		Black

MECHANICAL PROPERTIES WITHOUT FLOW AT 23 °C

Moulding conditions

Temperature	°C	155
Thickness	mm	4.0
Curing time	sec	65
Covering	%	100
Part size	mm	250X120
Layers		2

	Unit		Test method
Flexural test (*)			ISO 178
- Breaking stress	MPa	200	
- Elastic modulus	MPa	10000	
- Deviation at break	mm	4,0	
Impact test (Charpy)(**)	kJ/m ²	80	ISO 179
Tensile test (***)			ISO 527
- Breaking stress	MPa	80	
- Elastic modulus	MPa	11000	
- Elongation at break	%	1.5	

(*) 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	155
Thickness	mm	3
Curing time	sec	65
Covering	%	36
Part size	mm	700*300
Layers		4

	Unit	Perp/Para	Test method
Flexural test(*)			ISO 178
- Breaking stress	MPa	140 / 260	
- Elastic modulus	MPa	9000/12000	
- Deviation at break	mm	3.3 / 3.3	
Tensile test (**)			ISO 527
- Breaking stress	MPa	50 / 100	
- Elastic modulus	MPa	10000/13000	
- Elongation at break	%	1.1 / 1.3	

(*) Average on 12 production batches

(**) Average on 12 production batches

Mixt Composites Recyclables

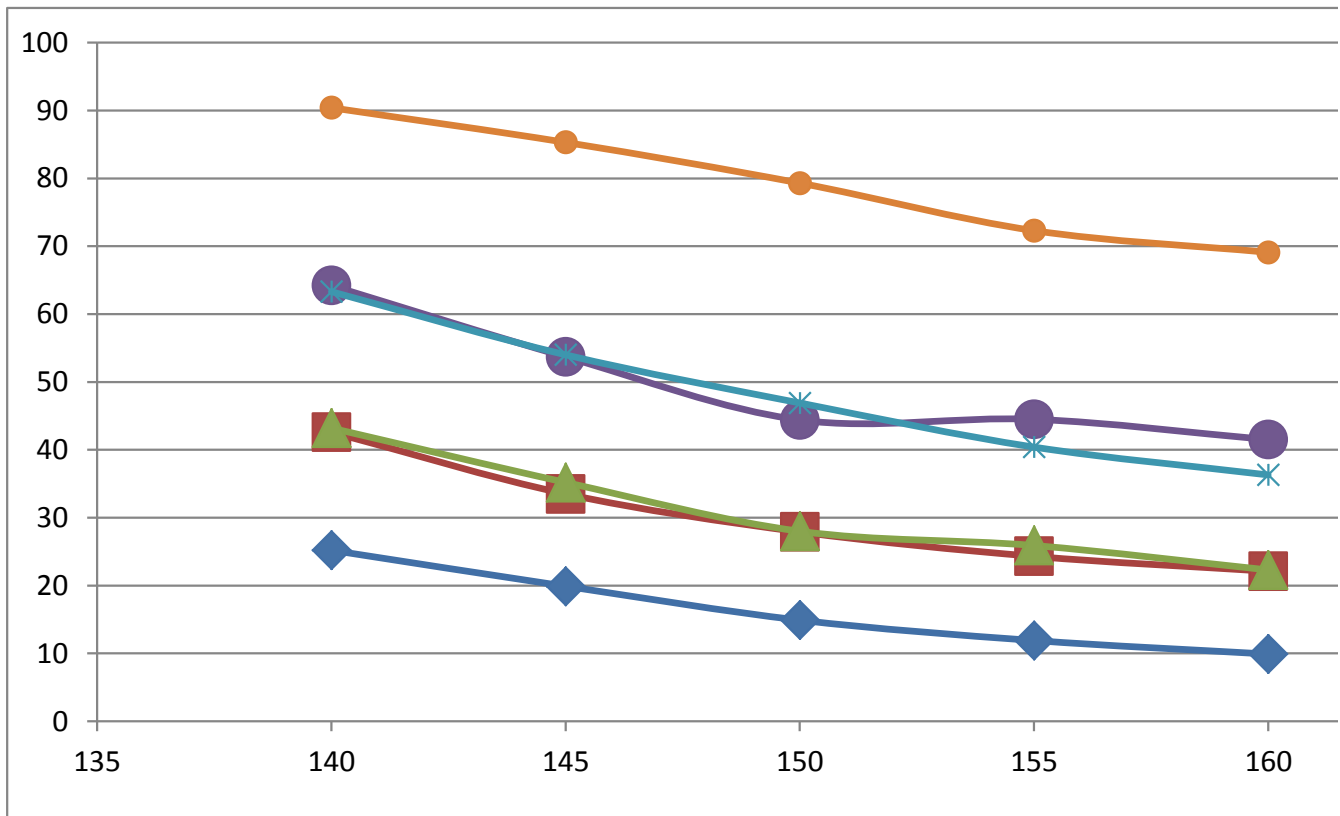
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OTHER PROPERTIES

	<i>Unit</i>		<i>Test method</i>
HDT	°C	>200	ISO 75-2
Burning Speed	mm/min	<100	ISO3795/FMVS302

Reactivity :

The reactivity data below are given as a technical information.



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