



CREPIM

Société par Actions Simplifiée -792 178 816 R.C.S. ARRAS  
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SIRET 792 178 816 00015 / APE 7112B / T.V.A. FR85 792 178 816



ACCREDITATION N°1-5860  
 Scope on request @ www.cofrac.fr

## Classification Certificate

Certificate n°		Address to	
<b>Certificate n°</b>	CCE G F 1677/18/011 A	<b>Company</b>	ARMACELL BENELUX SA
<b>Date</b>	01/02/18	<b>Name</b>	Christoph Justen
<b>Manager</b>	Skander KHELIFI	<b>Address</b>	Rue des Trois Entités, 9 Z.I. Les Plenesses
<b>Order number</b>	ACB 171016	<b>Postcode</b>	B-4890
<b>Date of order</b>	22/12/17	<b>Town</b>	Thimister-Clermont
<b>Pages</b>	1 on 1	<b>Country</b>	Belgium

### CERTIFICATE IN RANGE OF THICKNESS

Tested product	
<b>Name :</b>	ArmaFORM PET FR100
<b><u>VALIDATED THICKNESSES :</u></b>	From 19 mm to 50 mm
<b>Description :</b>	PET foam made by extrusion and welding
<b>Tested thicknesses :</b>	19 mm and 50 mm
<b>Density :</b>	100 kg/m <sup>3</sup> (declared)
<b>Reference's Reports :</b>	Thickness 19 mm : REE 1F 1677/18/011 A and REE 2F 1677/18/011 A Thickness 50 mm : REE 1F 1677/18/011 A and REE 2F 1677/18/011 A
<b>Color:</b>	White
<b>Manufacturer :</b>	ARMACELL BENELUX SA

Results	
Test standard	Concern
NF X 70-100-1/2	Smoke toxicity
NF X 10- 702	Smoke opacity
Test standard	Name
NF F 16-101	Rolling stock - Fire behaviour - Materials choosing
STM S-001 index D	Device technical specification
<b>IF 19 mm = 14 / IF 50 mm = 16</b>	

According to these results the tested product gets the classification

## F1

T. TURF Test Officer		F. POUTCH Président
S. KHELIFI Technical Manager		



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E09/01 rév O du 20/12/2017



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## Test Report

<b>Test report n°</b>	<b>REE 1F 1677/18/011 A</b>	<b>To</b>	
<b>Date</b>	01/02/18	<b>Company</b>	ARMACELL BENELUX SA
<b>Manager</b>	Skander KHELIFI	<b>Name</b>	Christoph Justen
<b>Order number</b>	ACB 171016	<b>Address</b>	Rue des Trois Entités, 9 Z.I. Les Plenesses
<b>Date of order</b>	22/12/17	<b>Postcode</b>	B-4890
<b>Pages</b>	1 on 1	<b>Town</b>	Thimister-Clermont
		<b>Country</b>	Belgium

**Test standard :** **NF X 70-100-1:2006** : Analysis of gaseous effluents : Methods for analysing gases stemming from thermal degradation  
**NF X 70-100-2:2006** : Analysis of gaseous effluents :Tubular furnace thermal degradation method

**Accredited COFRAC test :** COFRAC accreditation attests competence of the laboratories for the only tests covered by the accreditation

**Tested product**

**Name :** **ArmaFORM PET FR100**

**Description :** PET foam made by extrusion and welding

**Density :** 100 kg/m<sup>3</sup> (declared)

**Color :** White

**Remarks :** Manufacturing batch number: VB17/077 (BATCH 718095)

**Conditionning :** 23 ± 2 °C, 50 ± 5 % HR

*The results are valid only for the fire-test-exposure conditions described in this procedure and for the specimens assessed.*

<b>Reception date :</b>	10/11/18	<b>Results</b>		
<b>Furnace temperature :</b>	600 °C	<b>Air circulation method :</b> pumping		
		<b>Sample 1</b>	<b>Sample 2</b>	<b>Sample 3</b>
<b>Tested thickness (mm)</b>		19	50	19
<b>Amount CO (mg/g)</b>		269,72	355,40	311,95
<b>Amount CO2 (mg/g)</b>		1348,03	1524,62	1430,88
<b>Amount HCl (mg/g)</b>		0,61	0,48	0,53
<b>Amount HBr (mg/g)</b>		Not quantifiable		
<b>Amount HCN (mg/g)</b>		Not quantifiable		
<b>Amount HF (mg/g)</b>		Not detected		
<b>Amount SO2 (mg/g)</b>		Not quantifiable		
				<b>Test date</b>
				/
				<b>24/01/18</b>
				<b>24/01/18</b>
				<b>25/01/18</b>
				<b>25/01/18</b>
				<b>25/01/18</b>
				<b>25/01/18</b>

**Remarks :** Not quantifiable means that the measured values are below the quantification limits of the method. In accordance with STM-S-001 indice D, when testing a thickness range, the three tests are performed on different thicknesses (19 mm and 50 mm). ITC values calculated are: 18.54 for 19mm thick samples and 22.32 for 50mm thick samples.

M. DRUELLE Test Officer		F. POUTCH Président
S. KHELIFI Technical Manager		



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## Test Report

**Test report n°** REE 2F 1677/18/011 A

**Date** 01/02/18

**Manager** Skander KHELIFI

**Your order** ACB 171016

**Date of order** 22/12/17

**Pages** 1 on 2

To

**Society** ARMACELL BENELUX SA

**Name** Christoph Justen

**Address** Rue des Trois Entités, 9 Z.I. Les Plenesses

**Postcode** B-4890 **Town** Thimister-Clermont

**Country** Belgium

**Test standard :** NF X 10-702:1995 : Assesment of smoke opacity unrenewed atmosphere

**Accredited COFRAC test :** COFRAC accreditation attests competence of the laboratories for the only tests covered by the accreditation

### Tested product

**Name :** ArmaFORM PET FR100

**Description :** PET foam made by extrusion and welding

**Density :** 100 kg/m<sup>3</sup> (declared)

**Color :** White

**Remarks :** Manufacturing batch number: VB17/077 (BATCH 718095)

**Size :** 76 mm x 76 mm x 19 mm

**Conditionning :** 23 ± 2 °C, 50 ± 5 % RH

*The results are valid only for the fire-test-exposure conditions described in this procedure and for the specimens assessed.*

### Results

**Reception Date :** 10/11/18

**Test Date :** 31/01/18

	Test 1	Test 2	Test 3	Test 4	Average
<b>Mode</b>	NF	F	F	F	/
<b>Mass (g)</b>	10,60	10,80	11,10	10,80	/
<b>Thickness (mm)</b>	19,0	19,0	19,0	19,0	/
<b>Mass loss (%)</b>	29	19	17	23	/
<b>VOF4</b>	53	73	150	119	114
<b>tds16 (s)</b>	142	101	65	61	/
<b>Ds max</b>	54	52	78	54	61
<b>tm (s)</b>	1158	1147	487	603	/

F : Flammng Mode / NF : Non Flammng Mode

Ds max : maximal specific optical density

VOF4 : opacification for the first four minutes of test.

tds 16: time to reach an optical density of 16

tm: time to reach maximal optical density

**Remarks :** /



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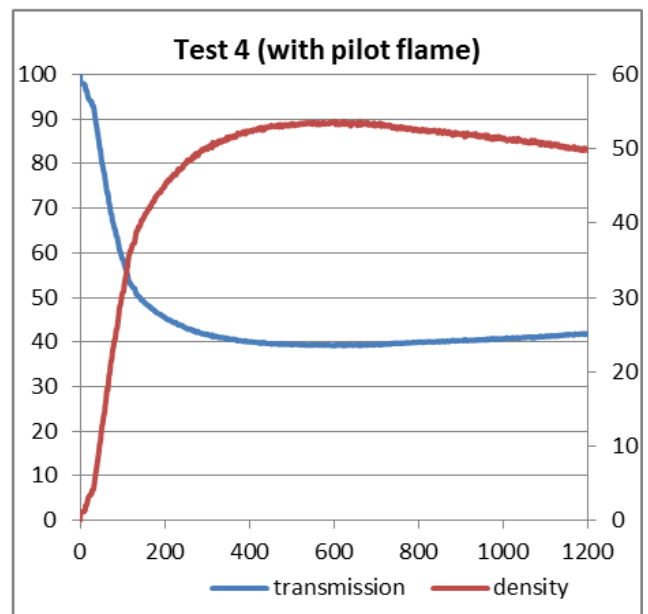
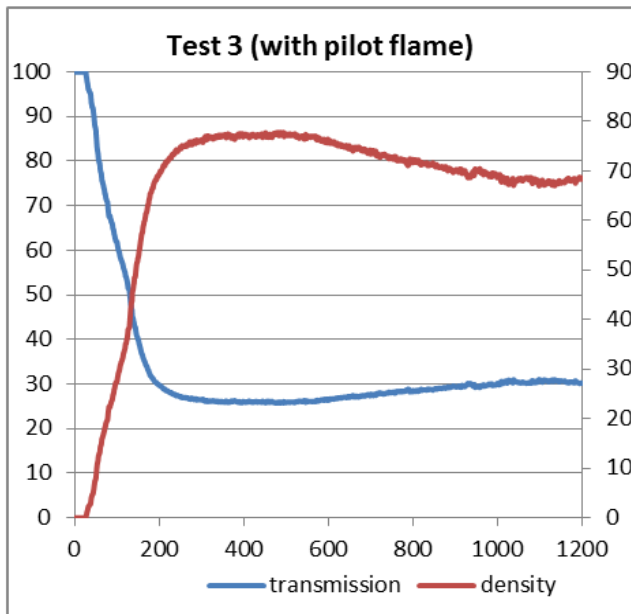
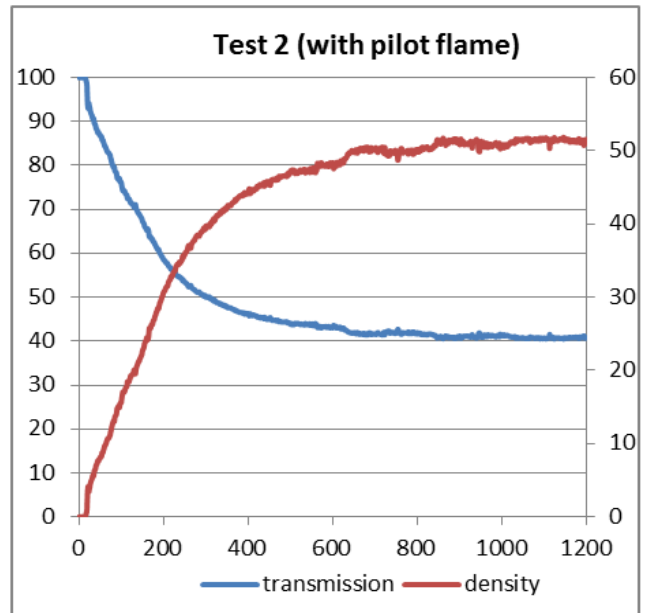
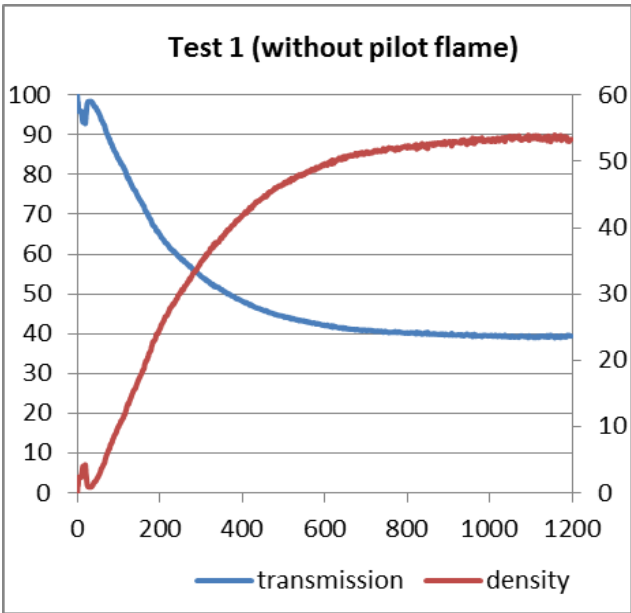


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**Test report**

Certificate N° **REE 2F 1677/18/011 A**  
 Pages 2 on 2

**Graphs**



R.AZAOUAGH Test Officer		F. POUTCH Président
S. KHELIFI Technical Manager		<i>François Poutch</i>

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