

## RESULTS REPORT nº PI-0060-15

### POLYUREA EUROTAF AR HG31

#### INFORMATION ON CLIENT

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Information on client	Registration number	Internal reference
EUROTAF AR HG31 WHITE	LP-215037	M0162/ 1-15
Type of sample	Sample quantity	Period of analysis
Resin	Unprepared sample	30 days of immersion

Test	Result	Unit	Standard
TEST OF CHEMICAL RESISTANCE	Meets visual and traction criteria  (see traction results and photos in annex)	<i>Without units</i>	UNE EN 14.879-2 part 8.2.2.  (Immersion into petrol EN 228 Method A, 30 days )

Information on client	Registration number	Internal reference
EUROTAF AR HG31 GREY	LP-215037	M0162/ 2-15
Type of sample	Sample quantity	Period of analysis
Resin	Unprepared sample	30 days of immersion

Test	Result	Unit	Standard
TEST OF CHEMICAL RESISTANCE	Meets visual and traction criteria  (see traction results and photos in annex)	<i>Without units</i>	UNE EN 14.879-2 part 8.2.2.  (Immersion into petrol EN 228 Method A, 30 days )

## RESULTS REPORT nº PI-0060-15

### OBSERVATIONS:

#### 1. Results on measures of thickness:

Samples	M0162/1 -15 White colour	M0162/2 -15 Grey colour	M0163/3 -15 Black colour
White	Length: 90 mm Width: 40 mm Thickness: 6,26 mm	Length: 90 mm Width: 40mm Thickness: 4,67 mm	Length: 90mm Width: 40mm Thickness: 2,38 mm
In contact with vapour	Length: 90 mm Width: 40mm Thickness: 40,96 mm	Length: 90mm Width: 40mm Thickness: 5,26 mm	Length: 90 mm Width: 40mm Thickness: 2,50 mm
In contact with liquids	Length: 90 mm Width: 40 mm Thickness: 6,01 mm	Length: 90 mm Width: 40 mm Thickness: 4,56 mm	Length: 90 mm Width: 40 mm Thickness: 2,33 mm

#### 2. Test results on traction:

##### 2.1. Summary table on tensile strength at break

SAMPLE	WHITE TEST (kN)	TEST ON CONTACT WITH LIQUID (kN)	TEST ON CONTACT WITH VAPOUR (kN)
WHITE M0162/1	12,513	11,084	9,566
GREY M0162/2	7,912	7,346	8,685
BLACK M0162/3	5,086	3,987	4,888

## RESULTS REPORT nº PI-0060-15

### 2.2 Results on breaking stress

Breaking stress =  $\sigma$

Work section =  $S$  = Width x Thickness

Breaking stress =  $\sigma$  = Breaking strength / work section

SAMPLE	TEST	WORK SECTION (mm <sup>2</sup> )	BREAKING STRENGTH (N)	BREAKING STRESS (N/mm <sup>2</sup> )
WHITE M0162/1	WHITE	250,4	12,513	<b>49,972</b>
	Contact with LIQUID	240,4	11,084	<b>46,106</b>
	Contact with VAPOUR	198,4	9,566	<b>48,215</b>
GREY M0162/2	WHITE	186,8	7,912	<b>42,355</b>
	Contact with LIQUID	182,4	7,346	<b>40,274</b>
	Contact with VAPOUR	210,4	8,695	<b>41,326</b>
BLACK M0162/3	WHITE	95,2	5,086	<b>53,424</b>
	Contact with LIQUID	93,2	3,987	<b>42,778</b>
	Contact with VAPOUR	100	4,888	<b>48,880</b>

### 2.3. Conclusion.

In three evaluated samples a small degradation is observed due to decrease of breaking stress. There is more degradation in the samples which are in contact with liquids than in those which are in contact with vapour.

This does not affect at all neither its chemical nor mechanical resistance.

*Note: It was not considered necessary to undertake tests on hardness due to integrate state of the samples and obtained results on traction.*

Signature:



ANA M AL-LAL BAEZA  
TECHNICAL MANAGEMENT

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## RESULTS REPORT nº PI-0060-15

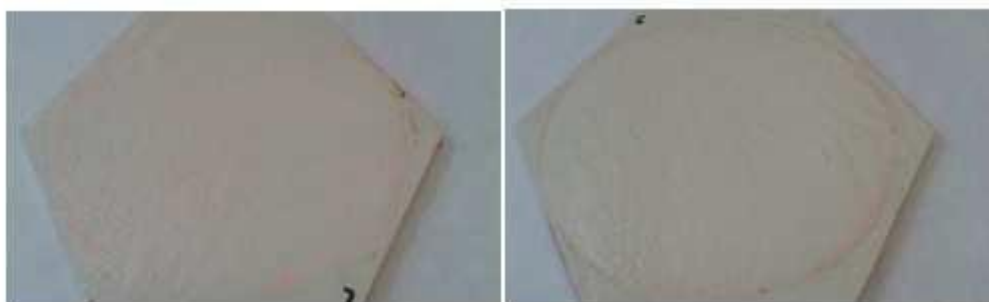
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### ANNEX I

#### Photos of degradation of samples after 30 days of immersion

Test on contact with liquid (M0162/ 2)

Test on contact with vapour (M0162/ 2)



Test GREY COLOUR  
(M0162/ 2)

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## RESULTS REPORT nº PI-0060-15

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Test on contact with liquid (M0162/ 3)

Test on contact with vapour (M0162/ 3)



Test BLACK COLOUR  
(MO 162/3)

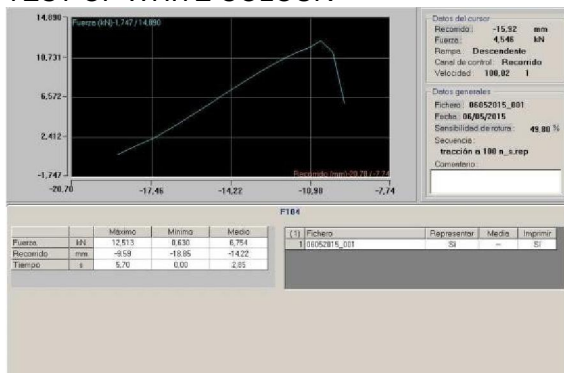


## RESULTS REPORT nº PI-0060-15

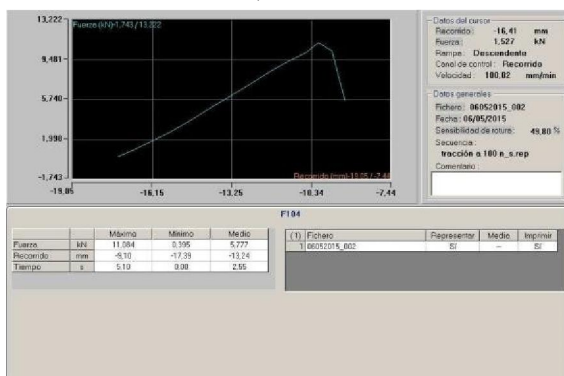
### ANNEX II Results gathered by equipment of test on traction

#### M0162/1- 15 (SAMPLE WHITE)

##### TEST OF WHITE COLOUR



##### CONTACT WITH LIQUID PHASE



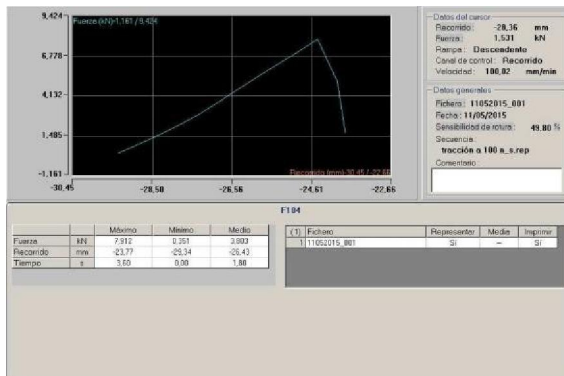
##### CONTACT WITH VAPOUR PHASE



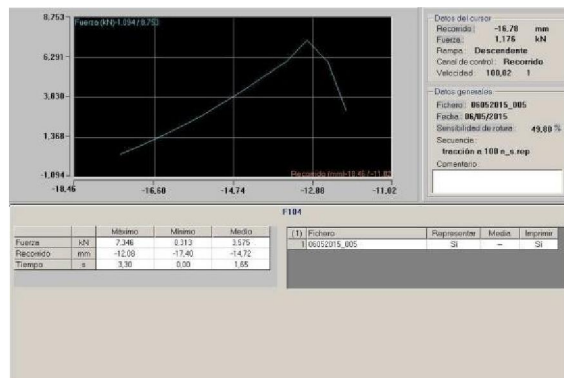
## RESULTS REPORT nº PI-0060-15

### M0162/2- 15 (SAPMLE GREY)

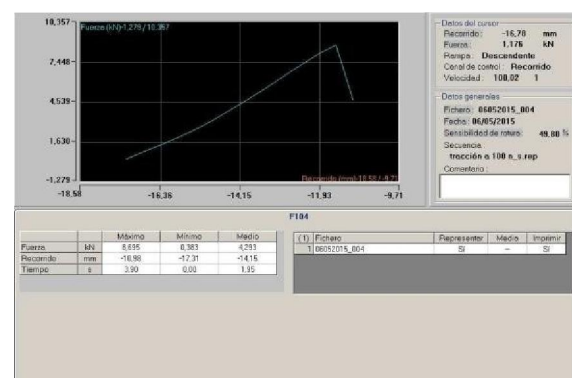
#### TEST OF GREY COLOUR



#### IN CONTACT WITH LIQUID PHASE



#### IN CONTACT WITH VAPOUR PHASE





## RESULTS REPORT nº PI-0060-15

### M0162/3- 15 (SAMPLE BLACK COLOUR)

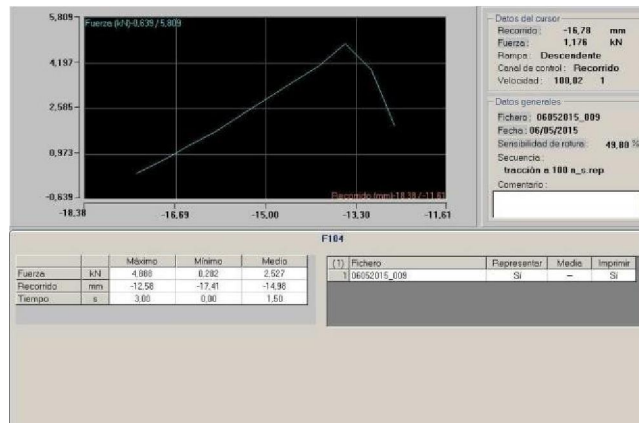
#### TEST BLACK COLOUR



#### IN CONTACT WITH LIQUID PHASE



#### IN CONTACT WITH VAPOUR PHASE



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The results included into this report affect only samples received by this Laboratory and sustained test on them indicated in this report.