



Association for the Promotion of Research
and Fire Safety Technology

CLASSIFICATION REPORT

Reaction to Fire Laboratory

APPLICANT:

DOTT. GALLINA S.R.L.

REACTION TO FIRE CLASSIFICATION

*[Classification of range of products according to Technical Report
EXAP <Extended Applications>]*

- Type of product: **Cellular polycarbonate**
 - Manufacture: Dott. Gallina S.R.L.
 - Range of products:

According to information included on sheet 3 of 4 (Table 1)



MINISTERIO
DE INDUSTRIA, TURISMO
Y COMERCIO

MINISTRY OF INDUSTRY, TOURISM AND TRADE
LICOF: Official Laboratory for Fire Testing
R.D. 1614/1985 on 1st of August.
M.O. on 21st of May of 1991.

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Signed: Tomás de la Rosa Sánchez
General Director

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REACTION TO FIRE CLASSIFICATION**Classification of range of products according Technical Report EXAP <Extended Applications>**

Applicant: **DOTT. GALLINA S.R.L.**
Strada Carignano, 104
10040 LA LOGGIA – TORINO (Italia)

Emissor laboratory: **AFITI-LICOF**
Notified Body Nr: 1168

Product: **Cellular Polycarbonate**
Manufacture: Dott. Gallina S.R.L.

Technical report EXAP Nr: **EXAP - 1303T07-3**

Applicant: DOTT. GALLINA S.R.L.
Laboratory: AFITI-LICOF
Issuing date: 28th-Jan-08
Reference document:
– CEN/TS 15117:2005 “Guidance on direct and extended application”

**Content of the report**

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1.- REPORT SCOPE

This Classification Report defines the Reaction to Fire classification of the range of products cellular polycarbonate on the basis of the established in the Technical Report EXAP (Extended Applications) n° EXAP- 1303T07-3 issuing by AFITI-LICOF in date 28th-Jan-08.

For the determination of the reaction to fire classification, it has been followed the criteria established in the EN 13501-1:2002 standard “*Fire classification of construction products and building elements. Part 1: Classification using test data from reaction to the fire*”, in the relative to:

- Selection of parameters of behaviour to the fire.
- Comparison of the values of the parameters of behaviour to the fire with the limits of those parameters that are considered to reach a certain classification.
- Presentation of the classification of the reaction to the fire.

2.- RANGE OF PRODUCTS

Hereafter, it is shown the range of products included inside the definition of the field of application of results of test included in the technical report EXAP n° EXAP-1303T07-3. Not indicated parameters must be kept in conformity with described in the reports of test of reference (1303T07-9, 1303T07-10)

- Table 1-

REFERENCE	Product Colour	Thickness (mm)	Density (kg/m ²)	Substance colouring content (mastebatch) %
“ARCOPLUS 1000”	Opal, crystal, blue, green and fumé	12	2,30	Lower than 3
“ARCOPLUS 344”	Opal, crystal, blue, green and fumé	40	3,60	Lower than 3
“ARCOPLUS 323”	Opal, crystal, blue, green and fumé	20	2,50	Lower than 3
“ARCOPLUS 684”	Opal, crystal, blue, green and fumé	8	1,85	Lower than 3
“ARCOPLUS 6104”	Opal, crystal, blue, green and fumé	10	2,35	Lower than 3
“ARCOPLUS 6124”	Opal, crystal, blue, green and fumé	12	2,50	Lower than 3
“ARCOPLUS ONDA”	Opal, crystal, blue, green and fumé	6	2,0	Lower than 3

3.- PARAMETERS OF BEHAVIOUR TO THE FIRE OF THE RANGE OF PRODUCTS.

Test method	Parameter	Continuos parameter mean (m)	Compliance with parameter
UNE-EN 13823:2002 S.B.I.	FIGRA _{0,2MJ}	12,03	Non applicable
	FIGRA _{0,4MJ}	Non applicable	Non applicable
	LSF < borde	Non applicable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	THR _{600s} (MJ)	1,0	Non applicable
	SMOGR _A (m ² /s ²)	4,86	Non applicable
	TSP _{600 s} (m ² /s)	11,0	Non applicable
	Drops/particles flamed	Non applicable	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Testing method	Parameter	Result						Fullfill
		1	2	3	4	5	6	
UNE-EN ISO 11925-2:2002,								
Exposure time = 30 s	F _s ≤ 150 mm	yes	yes	yes	yes	yes	yes	Yes
Drops / particles flamed	Ignition of filter paper	no	no	no	no	no	no	Yes

4.- CLASIFICACION

The range of products of celular polycarbonate (Table 1) presents the following classification.

Reaction to Fire Classification


Fire Behaviour	Smoke production	Flaming droplets
B	s 1	d 0
B – s1, d0		

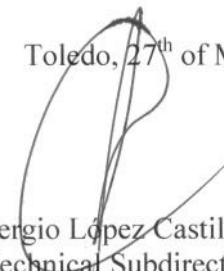
[Presentation of the classification according to standard UNE-EN 13501-1:2002 "Fire classification of construction products and building elements. Parte 1: Classification from information obtained in tests of Reaction to the Fire".]

5.- LIMITATIONS

This document does not represent type approval or certification of the product.

Toledo, 27th of March of 2008

Signed: 
Diana Luengo Rojo
Technical Director of LICOF

Signed: 
Sergio López Castillo
Technical Subdirector of
Reaction to Fire Laboratory