

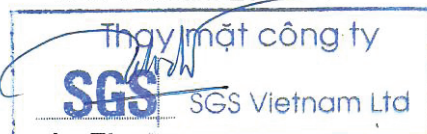
1. Client's name / Tên khách hàng : PIMA COMPANY LIMITED
CÔNG TY TRÁCH NHIỆM HỮU HẠN PIMA
2. Client's address / Địa chỉ : BINH TIEN 2 HAMLET, DUC HOA HA COMMUNE,
DUC HOA DISTRICT, LONG AN PROVINCE
ẤP BÌNH TIỀN 2, XÃ ĐỨC HÒA HẠ, HUYỆN ĐỨC
HÒA, TỈNH LONG AN

The following sample(s) was/were submitted and identified by the client as:

Các thông tin nhận dạng mẫu do khách hàng cung cấp:

3. Name of sample / Tên mẫu : PIMA (PVC) FOAM BOARD / TẤM NHỰA PIMA
4. Quantity / Số lượng mẫu : 01 sample / mẫu
5. Description / Mô tả mẫu : The specimens were processed for all test items by
the client
Mẫu đã gia công bởi khách hàng cho tất cả các chỉ
tiêu thử nghiệm
6. Date of receiving / Ngày nhận mẫu : 29-Jan-2016
7. Date of testing / Ngày thử nghiệm : From / từ 29-Jan-2016 to / đến 23-Feb-2016
8. Test result / Kết quả thử nghiệm : See next page(s) / Xem trang sau

Signed for and on behalf of
 SGS Vietnam LTD



Le Tiep Du
 Construction Lab Manager
 Industrial Services

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Characteristic Tên chỉ tiêu	Unit Đơn vị	Test method Phương pháp thử nghiệm	Test result Kết quả thử nghiệm
• Vicat softening temperature (load 50N, rate 50°C /h ^(*) / Nhiệt độ hóa mềm Vicat (tải 50N, tốc độ 50°C/h)	°C	ISO 306 : 2013 Method B50	75.1
• RoHS Directive 2011/65/EU Annex II / Thử tính độc hại		IEC 62321	Comply with requirement Phù hợp với yêu cầu See appendix 1 Xem phụ lục 1
• Flammability ^(*) / Tính cháy	Flame rating	UL94 - 1997	HB See appendix 2 Xem phụ lục 2
• Tensile strength / Độ bền kéo	MPa	ASTM D638 - 14	6.5 See appendix 3 Xem phụ lục 3
• Flexural strength / Độ bền uốn	MPa	ASTM D790 - 15e2	16.02 See appendix 4 Xem phụ lục 4
• Impact strength / Độ bền va đập	kJ/m ²	ASTM D256 - 10e1	16.51 See appendix 5 Xem phụ lục 5
• Water absorption / Độ hấp thụ nước	%	ASTM D570 - 98 (R2010 E1)	0.94

Note : (*) The test was performed by SGS Vietnam's Subcontract Lab / Chỉ tiêu được tiến hành bởi Thấu phụ của SGS Việt Nam.

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APPENDIX 1 / PHỤ LỤC 1 :

Characteristic / Tên chỉ tiêu	Conclusion / Kết luận
RoHS Directive 2011/65/EU Annex II / Thử tính độc hại	Based on the performed tests on selected part of submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC / Phù hợp với yêu cầu

RoHS Directive 2011/65/EU Annex II

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Cadmium(Cd) (*)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	2	100
Lead (Pb) (*)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	6.0	2	1000
Mercury (Hg) (*)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	2	1000
Hexavalent Chromium (CrVI) (*)	mg/kg	With reference to IEC 62321:2008 (Determination of CrVI by UV-VIS)	n.d.	2	1000
Sum of PBBs	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)		-	1000
Monobromobiphenyl	mg/kg		n.d.	5	-
Dibromobiphenyl	mg/kg		n.d.	5	-
Tribromobiphenyl	mg/kg		n.d.	5	-
Tetrabromobiphenyl	mg/kg		n.d.	5	-
Hexabromobiphenyl	mg/kg		n.d.	5	-
Pentabromobiphenyl	mg/kg		n.d.	5	-
Heptabromobiphenyl	mg/kg		n.d.	5	-
Octabromobiphenyl	mg/kg		n.d.	5	-
Nonabromobiphenyl	mg/kg		n.d.	5	-
Decabromobiphenyl	mg/kg		n.d.	5	-
Sum of PBDEs	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	n.d.	-	1000
Monobromodiphenyl ether	mg/kg		n.d.	5	-
Dibromodiphenyl ether	mg/kg		n.d.	5	-
Tribromodiphenyl ether	mg/kg		n.d.	5	-
Tetrabromodiphenyl ether	mg/kg		n.d.	5	-
Pentabromodiphenyl ether	mg/kg		n.d.	5	-
Hexabromodiphenyl ether	mg/kg		n.d.	5	-
Heptabromodiphenyl ether	mg/kg		n.d.	5	-
Octabromodiphenyl ether	mg/kg		n.d.	5	-
Nonabromodiphenyl ether	mg/kg		n.d.	5	-
Decabromodiphenyl ether	mg/kg		n.d.	5	-

- Note:**
1. mg/kg = ppm; 0.1wt% = 1000ppm
 2. MDL = Method Detection Limit
 3. n.d. = Not detected
 4. - = not regulated

IEC 62321 is equivalent to EN 62321

http://www.cenelec.eu/dyn/www/f?p=104:110:721668440899381:::FSP_PROJECT,FSP_LANG_ID:20662,25

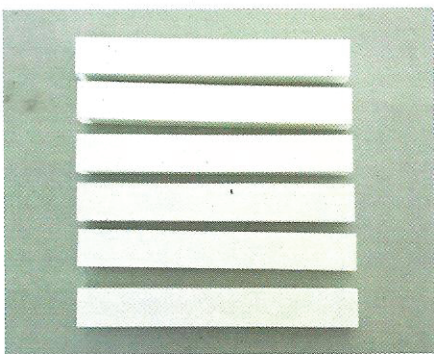
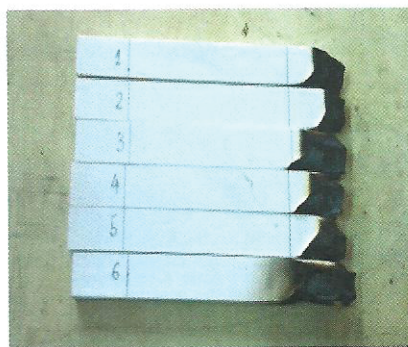
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APPENDIX 2 / PHỤ LỤC 2 :

Characteristic / Tên chỉ tiêu					:	Flammability ^(*) / Tính cháy	
Description / Mô tả mẫu					:	Sample material is in solid form and ivory color Mẫu vật liệu dạng khối đặc, màu trắng ngà. Thickness / Chiều dày: 11.5mm	
Date of testing / Ngày thử nghiệm					:	From / từ 17-Feb-2016 to / đến 21-Feb-2016	
Test method / Phương pháp thử					:	UL94 - 1997	
Testing apparatus / Thiết bị thử nghiệm					:	Single-Flame source test chamber / Hệ thống thử nghiệm tính bắt cháy bằng mồi lửa nhỏ	
Ambient temperature / Nhiệt độ môi trường					:	22 ⁰ C	
Specimen Ký hiệu mẫu	Time of burning / Các thời điểm cháy của mẫu (sec)				Flame stop point Điểm tắt cháy (mm)	Observations during the test Ghi nhận khác trong thử nghiệm	
	t _{ch}	t ₂₅	t ₁₀₀	t _{tắt}			
1	1	0	0	31	< 25	Black smoke emitted, burned materials was shrinked Tỏa ra khói đen, phần mẫu cháy bị xun lại	
2	1	0	0	31	< 25		
3	1	0	0	34	< 25		
4	1	0	0	32	< 25		
5	1	0	0	31	< 25		
6	1	19	0	31	<100		
Flammability class according to UL 94 / Phân cấp tính cháy theo UL 94 :						HB	
							
Samples before testing / Mẫu trước khi thử nghiệm					Samples after testing / Mẫu sau khi thử nghiệm		
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Denoted / Ký hiệu :

t_{ch} : Time that specimen ignited under the impingement of pilot flame / Thời điểm mẫu bắt lửa tính từ khi chịu tác động của ngọn lửa mẫu
 t_{25} : Time flame front reaches 25 mm benchmark / Thời điểm ngọn lửa chạm đến vạch mốc 25 mm
 $t_{tắt}$: Time that burning of specimen cease with pilot flame removed / Thời điểm ngọn lửa trên mẫu tự tắt sau khi rút ngọn lửa mẫu
 $t_{tắt}$: Time that burning of specimen cease with pilot flame removed / Thời điểm ngọn lửa trên mẫu tự tắt sau khi rút ngọn lửa mẫu

Remarks / Ghi chú :

(*) The test was performed by SGS Vietnam's Subcontract Lab / Chỉ tiêu được tiến hành bởi Thủ phụ của SGS Việt Nam

1- Specimens are selected and delivered to laboratory by the client / Mẫu do khách hàng lấy và cung cấp đến phòng thí nghiệm;

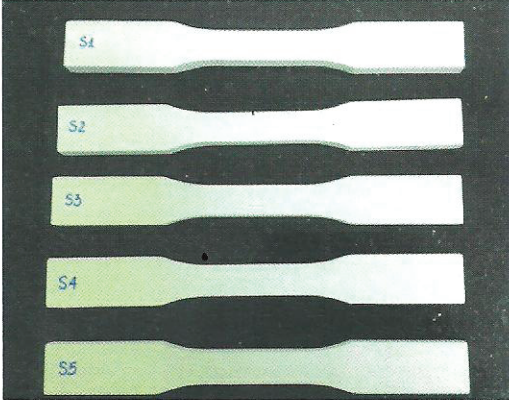

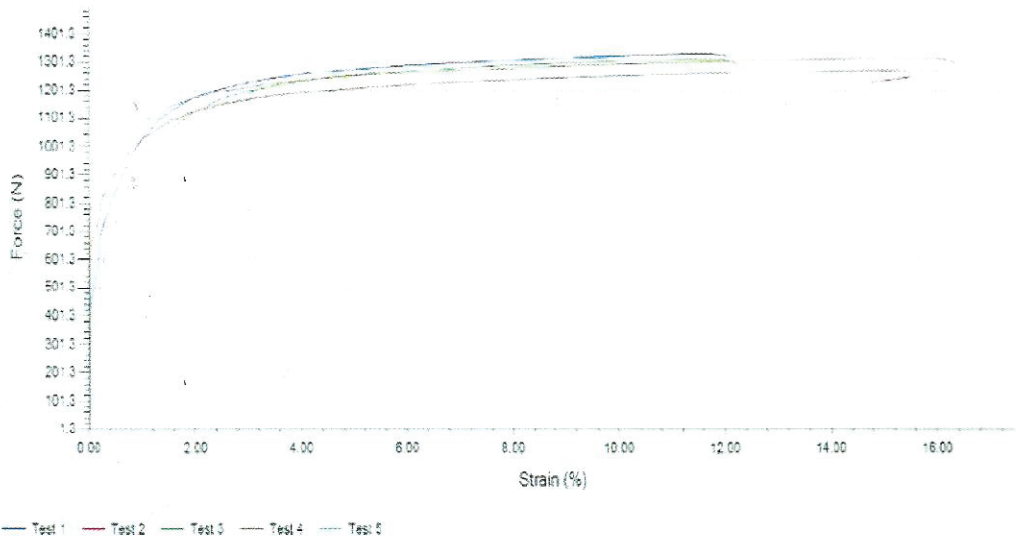
2- The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use / Các kết quả thí nghiệm chỉ cho biết ứng xử của mẫu vật liệu trong những điều kiện tiêu chuẩn của thí nghiệm. Việc đánh giá mức độ nguy hiểm cháy của loại sản phẩm này cần căn cứ vào những chỉ tiêu cụ thể theo yêu cầu sử dụng, không chỉ căn cứ hoàn toàn vào những kết quả trên.

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APPENDIX 3 / PHỤ LỤC 3 :

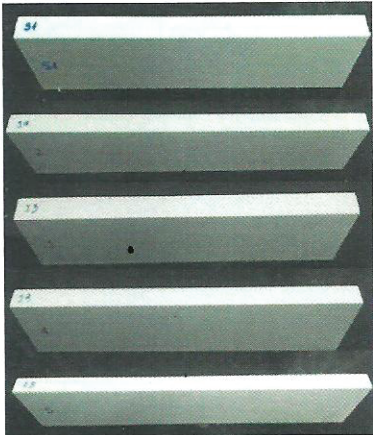
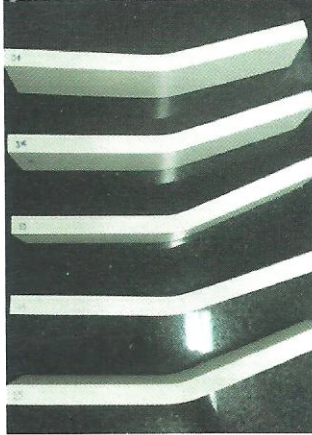
These figures describe tensile test / Hình ảnh mô tả phần thử nghiệm độ bền kéo	
Samples before testing / Mẫu trước khi thử nghiệm	Samples after testing / Mẫu sau khi thử nghiệm
	
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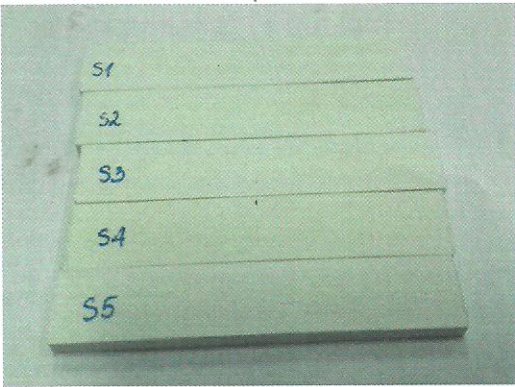

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APPENDIX 4 / PHỤ LỤC 4 :

These figures describe flexural test / Hình ảnh mô tả phần thử nghiệm độ bền uốn	
Samples before testing / Mẫu trước khi thử nghiệm	Samples after testing / Mẫu sau khi thử nghiệm
	
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APPENDIX 5 / PHỤ LỤC 5 :

These figures describe impact test / Hình ảnh mô tả phần thử nghiệm độ va đập	
Samples before testing / Mẫu trước khi thử nghiệm	Samples after testing / Mẫu sau khi thử nghiệm
	
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