



Andisheh Bartar Miran Institute

**Lab collaboration with General Office of Standard & Industrial Research of
Tehran - No. certification: T/1565
ISIRI-ISO/IEC 17025 - No. certification: NACI/Lab/711**

Document code: F4030/07

Revision date: 94/06/15

Test Report

Applicant	Mr. Yoosef Ataallahi	Test code	1400101903
company/producer	Ofogh Raz Takht Jamshid	Result Published on	2022/07/24
Sample Name and Type	UPVC Roof sheet	Appendix/Supplement	3 pages
Trade name	-	Date of sampling	-
Application number	-	Sample Received on	2022/01/09
Application date	2022/01/09	Sample Tested on	2022/06/01
Sample code	BTJ	Production date	-
Address of applicant: No. 667 ,Second Koohestan Alley, East Dr. Hesabi Street, Eshtehard Industial Town		Production series	-
		Place of sampling	-
		Type of standard	-

Tel: +98 9121790195 Fax: -

Standard Reference: - Cost of experiment:..... conditioning: Temperature: 23 ± 2°C Humidity: 50 ± 5 %

Licenses:

- License of research from the Ministry of Industries and Business
- The authority license for research collaboration with the Ministry of Petroleum
- License of Iran Technical and Vocational Training Organization
- License for holding workshops for Institute of Standards and Industrial Research of Iran

Agreements:

- Iran Polymer and Petrochemical Institute
- Sazeh Gostar Saipa
- Razi Metallurgical Research Center
- Razi foundation
- Gostaresh Plastic
- Aryanam

No.	Test Measurement		Standard	Standard Limit	Result	Defects		
						Slight	Major	Critical
1	Density		ASTM D792	-	1.630 g/cm ³			
2	Ash Content		ASTM D5630	-	35.92%			
3	Water Absorption		ISO 62	-	0.11%			
4	Volatile Matter		ASTM D3030	-	0.06%			
5	Rockwell Hardness		ASTM D785-15	-	38.1 HRR-15			
6	Tensile	Stress @ Yield	ASTM D638	-	31.2 MPa			
		Nominal Elongation @ Yield			4.2 %			
		Stress @ Break			28.9 MPa			
		Nominal Elongation @ Break			29.9 %			
7	Flexural	Flexural Modulus	ASTM D790	-	2705.5 MPa			
		Flexural Stress @ 5% Strain		-	47.1%			
8	Drop-Weight Impact		ISO 6603	-	928 g			

Procedure condition:

Density: Temp: 25°C

Ash Content: Temp: 650°C, Time: 120 min

Water Absorption: Temp: 25°C, Time: 6 days

Volatile Matter: Temp: 110°C, Time: 60 min

Rockwell Hardness: Specimen Thickness: 2.4 mm, Test direction:

Perpendicular to the surface of specimen

Drop-Weight Impact Test: Height: 1m, Temp: 25°C**Flexural:** Speed: 1.3 mm/min .Span:46 mm**Tensile:** Speed:50 mm/min. Grip:115 mm**Comments:**

- 1- Sampling was done by applicant.
- 2- These results are valid just for this received sample.
- 3- Number of specimens is in accordance with the standard.
- 4- Test specimens were prepared by andisheh bartar miran Institute.
- 5- Test Clause 5, has been done in Iran Polymer and Petrochemical Institute.
- 6- Tests uncertainly consist of: Tensile 2.71%, Density 0.88%, Flexural 2.30%.

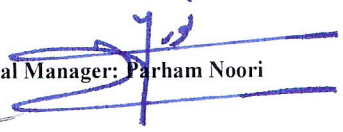


Tested by: Farnaz Mostafa poor

Technical Manager: Farham Noori

Managing Director: Alireza Mirbolook

Address: 2nd floor, No. 1, 25th street, Lashgari Expy, Tehran, Iran. Po. Code: 1399837611 Tel & Fax: +982144539094-5, +982144565305
This report is invalid without logo, sign, seal and hologram sticker's institution. Copy of this paper is not valid and for each test exports only one result.

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No.	Test Measurement	Standard	Standard Limit	Result		Defects										
						Slight	Major									
9	High temperature Drop-Weight Impact (60 °C)	ISO 6603	-	>2500 g												
10	High temperature Drop-Weight Impact (-30 °C)	ISO 6603	-	126 g												
11	Determination of heat reversion	ISIRI 10787	-	1.73%												
12	VICAT	ASTM D1525	-	96.6°C	97.0°C											
13	The temperature difference of the bottom and top of the product under sunshine	-	-	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td>top</td> <td>bottom</td> </tr> <tr> <td>First time</td> <td>53.9°C</td> <td>40.1°C</td> </tr> <tr> <td>Secondary time</td> <td>52.1°C</td> <td>39.6°C</td> </tr> </table>			top	bottom	First time	53.9°C	40.1°C	Secondary time	52.1°C	39.6°C		
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First time	53.9°C	40.1°C														
Secondary time	52.1°C	39.6°C														
14	Flammability	UL94 (ASTM D3801)	-	5VA												
15	Chemical resistance to salt water, Ethanol and NaOH	-	-	No changes were observed												
Procedure condition: High temperature Drop-Weight Impact (60 °C): The time of placement in the oven: 6 hr. High temperature Drop-Weight Impact (-30 °C): The time of placement in the refrigerator: 6 hr. Determination of heat reversion : Temp: 100°C, Time: 1 hr. VICAT: Deflection: 1 mm , F: 10N , Rate: 50 °C/h				Flammability: The test was performed on the surface The temperature difference of the bottom and top of the product under sunshine : Duration time: 1hr, Start: 16:40, End: 17:40 Chemical resistance: Ethanol 70%, NaOH 10%, Saturated Salt Water: Time 2hr, Temp 23°C												
Comments: 1- Sampling was done by applicant. 2- These results are valid just for this received sample. 3- Number of specimens is in accordance with the standard. 4- Test specimens were prepared by andisheh bartar miran institute. 5- In Test Clause 15, Due to the self-extinguishing of the specimen immediately after removing the flame in a vertical position, the test was performed on the surface, which did not create a hole. 6- Tests uncertainly consist of: VICAT 0.87%.																
Tested by: Farnaz Mostafa poor 		Technical Manager: Parham Noori 		Managing Director: Alireza Mirbolook  From signing												

Tensile Report



Date: 01-06-2022

Material: UPVC

Sample Code: O.R.Takhtejamshid

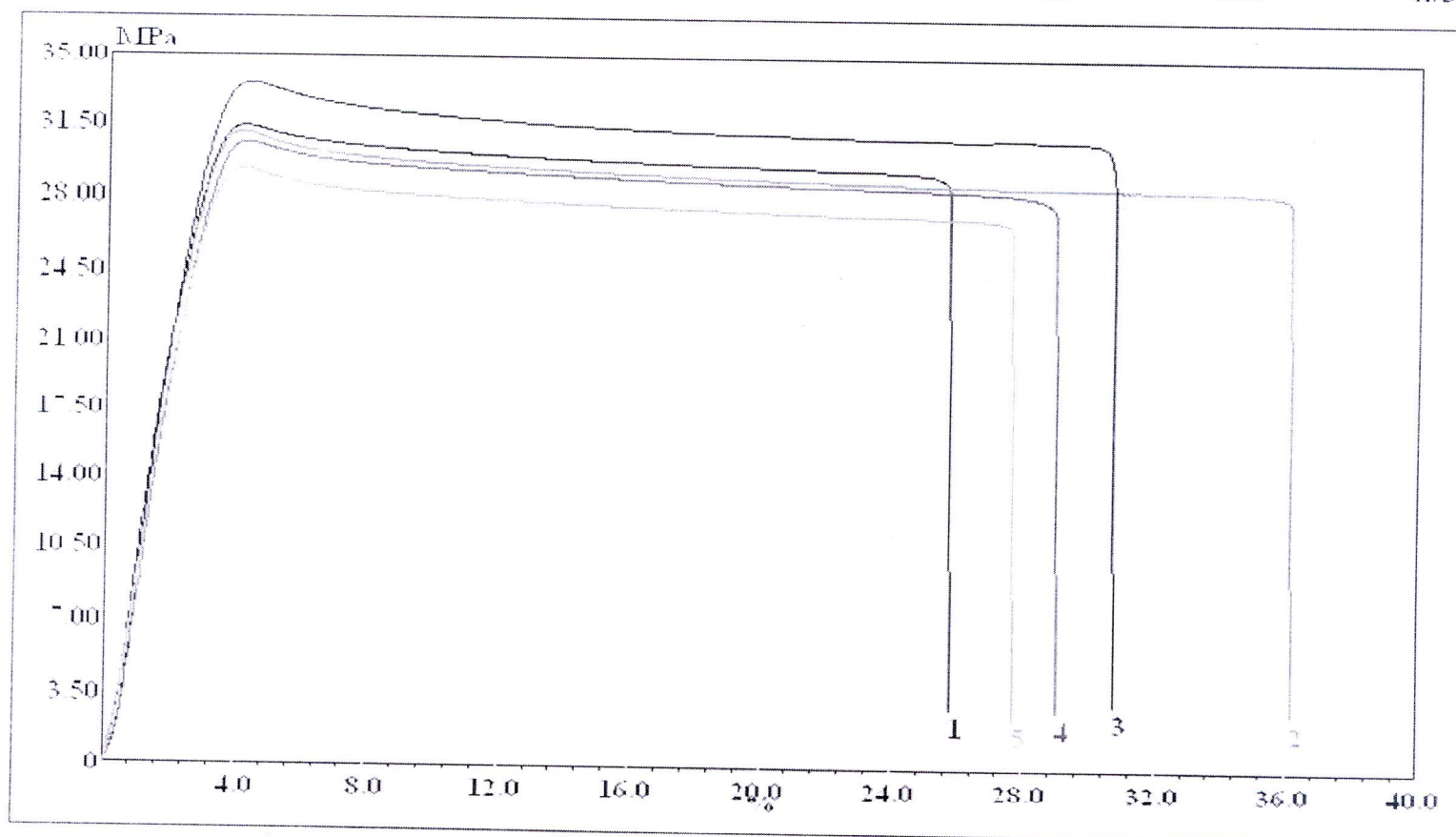
Laboratory Code: 1400101903

Speed: 50.000 mm/min

Standard: ASTM D638

Grip: 115.000 mm

Test No.	Thickness mm	Width mm	Yield Point %	Stress@Yield MPa	Yield point %	Break Point %	Stress@Max Load N/mm	Stress @ Break MPa
1	2.72	13.21	---	31.42	4.21	25.77	---	29.37
2	2.65	13.25	---	31.13	4.11	36.14	---	28.59
3	2.31	13.21	---	33.60	4.34	30.76	---	30.94
4	2.73	13.41	---	30.60	4.30	29.01	---	28.40
5	2.74	13.36	---	29.34	4.11	27.69	---	27.24
Average	2.63	13.29	0.00	31.22	4.21	29.87	0.00	28.91
CV% (N1)	6.93	0.69	0.00	4.97	2.51	13.22	0.00	4.73



Date: 01-06-2022

Material: UPVC

Sample Code: O.R.Takhtejamshid



Speed: 1.300 mm/min

Span: 46 mm

Standard: ASTM-D 790

Test No.	Thickness	Width	Flexural Modulus	Stress@3.5% Strain	Stress@5% Strain	Flextural Stress@Break
	mm	mm	MPa	MPa	MPa	MPa
1	2.89	12.58	2753.44	---	46.71	---
2	2.92	12.59	2653.91	---	48.38	---
3	2.87	12.60	2712.51	---	47.37	---
4	2.92	12.61	2762.35	---	45.76	---
5	2.84	12.59	2645.16	---	47.48	---
Average	2.89	12.59	2705.47	0.00	47.14	0.00
CV%(N-D)	1.18	0.09	2.01	0.00	2.07	0.00

