



ATMY ANALYTICAL LABS PVT.LTD.

I-30, DLF Industrial Area, Phase-1, Faridabad (Haryana) INDIA
Phone: +91-129-4019544
info@atmylabs.com, www.atmylabs.com

- Testing
- Research
- Innovation

TEST REPORT

Report No.: **24M293D**

Page 1 of 4
Date: 24-09-2024

Issued To:

M/s PROZONIC EXTRUSIONS PRIVATE LIMITED
SY NO.78/P, 79/P, SIDDIPET, BANDA MAILARAM, SIDDIPET,
SIDDIPET, TELANGANA, INDIA - 502336

Sample Description : SAMPLE CODE- 10461831/2024/SS/4, QR CODE- 100000785340
Sample Received Date : 17-08-2024
Sample Drawn By : Client
Specification : --
Test Requested : TEST AS PER IS 17953:2023
Test Method : Refer to Attached Pages.
Test Result : Refer to Attached Pages.

Authentication: To Check authenticity of Test report (s), Scan QR code to get original data.

Terms & Conditions:

BIS, DGQA & Various Govt. Approved Laboratory
ISO 9001 : 2015, ISO 14001:2015 & OHSAS 18001:2007 Certified Laboratory

1. Sample will not be retained more than one month for chemical and three month for mechanical unless specified instructed. 2. Samples analysis conducted on as received basis and followed by customer description, unless specified otherwise. 3. The laboratory will not be liable for sample destroy/damage during testing, unless instructed otherwise. 4. Any Complaints matter about this report should be communicated in written, within 7 days of issue of this report. 5. The result listed refer only to the tested samples and applicable parameters as described by customer. Endorsement of product is neither inferred nor implies. 6. Total liability of our laboratory is limited to the invoiced amount only. 7. This report cannot be used as and evidence in a court of law without the written approval of the laboratory.





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PART -A: PARTICULARS OF SAMPLE SUBMITTED:

Nature of sample	:	UPVC Profile for Windows and Doors
Grade/Variety/Type/Class	:	UPVC Profile - Mono Extrusion Profile
Brand Name, if any	:	-
Declared Value, if any	:	Width -58 mm, Depth - 62.0mm, Thickness - 2.3 mm, Mass of profile 0.98 kg/m, e - 28.7mm, W - 5454.5 mm ³ ,
Code No.	:	10461831/2024/SS/4
Designation Code	:	-
Batch No. & Date of Mfg.	:	PNC 621-F01 & 25 Jul, 2024
Quantity of sample received	:	10 nos. of 1m profile, + 10 nos. of welded pieces as per Weldebility,
Condition of sample received	:	Satisfactory
Mode of packing	:	-
Manner of seal	:	-
Manner of Signature	:	-
Other information if any	:	-

PART-B: SUPPLIMENTARY INFORMATION:

- Reference to the sampling procedure, wherever applicable: N/A
- Supporting to the documents for the measurement taken and result derived like graph, table, sketches, and/or photographs as appropriate to test report, if any [To be attached]: N/A
- Deviation from the test methods as prescribed in relevant ISS/work instruction, if any: N/A

PART - C: TEST RESULTS:

TEST REPORT AS PER IS 17953:2023

I. Chemical & Mechanical

Test Method: IS 17953:2023

Test performed on: 17-08-2024 to 24-09-2024

Sr. no	Clause No.	Test (s)	Unit	Requirement	Result obtained
1	5.1.1	UV Resistant Virgin Material	--	UV resistant / Non UV resistance	NA
		Vicat Softening Temperature as per IS 13360 (Part 6/Sec 1)	°C	≥ 75.0 Average	79.5
		Flexural Modulus of Elasticity as per IS 13360 (Part 5/Sec 7)	N/mm ²	≥ 73.0 Individual	77.4
		Tensile Impact Strength as per IS 13360 (Part 5/Sec 27)	kJ/m ²	≥ 2200.0 Average	2352
2	5.2	Appearance of uPVC Profile (as per IS/ISO 105-A01)	--	≥ 2000.0 Individual	2300
				≥ 600.0 Average	622
				≥ 450.0 Individual	590
				The colour of the profile shall be the same and uniform on all visible surfaces,	Satisfactory
				The surfaces of the profiles shall be smooth and free from pitting, impurities, cavities and other surface defects when viewed in accordance with 6.1	Satisfactory
				The edges of the profiles shall be clean and burr-free	Satisfactory

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Sr. no	Clause No.	Test (s)	Unit	Requirement	Result obtained
		L	--	≥ 82	98.34
		a	--	$- 2.5 \leq a^* \leq 5$	0.62
		b	--	$- 5 \leq b^* \leq 15$	1.6
3	5.3	Dimensions and Tolerances			
		Depth (D)	mm	58.0 ± 0.3	58.12
		Width (W)	mm	62.0 ± 0.5	62.16
		Sight visible surface wall thickness	mm	2.3 (-10 % max)	2.28
		Sight visible surface flatness,	mm	0.3 max.	0.20
		Parallelism	mm	0.5 max.	0.35
4	5.3.4	Straightness	mm	1 max.	0.55
5	5.4	Mass of profile	%	Not less than 95	99.80
6	5.5	Heat Reversion			
		Main profile	%	≤ 2.0	0.62
		Difference of heat reversion	%	≤ 0.4	0.10
		Auxiliary profiles	%	NA	NA
7	5.6	Resistance to Impact of Falling Mass	--	No more than one test specimen shall show rupture in the tested external sight visible surface. For co-extruded uPVC profiles, delamination of co-extruded layer shall be considered as a failure	No failure observed
8	5.7	Heat Ageing	--	The profiles shall not show defects such as blisters, cavities, cracks and surface peel offs on any of the surfaces. For co-extruded uPVC profiles, delamination of co-extruded layer shall be considered as a failure.	Satisfactory

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Sr. no	Clause No.	Test (s)	Unit	Requirement	Result obtained
9	5.8	Weldability			
	5.8.1	Tensile Bending Test	N/mm ²	≥ 20 Individual value	26.8
				> 25 Avg. value	27.4
5.8.2	Compression Bending Test	N/mm ²	≥ 28 Individual value	37.2	
			> 35 Avg. value	38.5	
10	5.9 Table 3	Charpy Impact Strength (before artificial Weathering)	kJ/m ²	≥ 65	68.2
11	5.10.3 Table 3	Charpy Impact Strength (after artificial Weathering)	kJ/m ²	≥ 52	Test Under Process
		Max. Impact of Reduction (after artificial Weathering)	%	20	Test Under Process
12	5.10.4	Colour Fastness (after artificial Weathering)	--	ΔE - ≤ 5 Δb- ≤ 3	Test Under Process
13	5.11	Density	g/cm ³	1.40 to 1.50	1.48

PART – D: REMARKS: The above submitted sample/product conforms to the requirements of IS 17953:2023 with respect to above test only.

- Note:**
- 1) Selection of samples for individual test have been done in accordance with respective clauses of IS 17953:2023
 - 2) Details of sub-contracted: Nil
 - 3) Remnant samples will be disposed off after 03 months from the date of issue of test report.

-----End of Report-----



Rahul
ASSISTANT MANAGER- TESTING
Authorized Signatory

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