

सिपेट : इंस्टिट्यूट ऑफ प्लास्टिक्स

(रसायन एवं उर्वरक मंत्रालय, भारत सरकार)

गिण्टी, चेन्नै - 600 032.

फोन : 91-44-2225 4701-6 फैक्स : 91-44-22254707

ई-मेल : chennai@cipet.gov.in वेबसाइट : www.cipet.gov.in



CIPET सिपेट
probe - perform - practice - Plastics

CIPET : INSTITUTE OF PLASTICS TECHNOLOGY

(Ministry of Chemicals & Fertilizers, Govt. of India)

Guindy, Chennai - 600 032.

Tel : 91-44-2225 4701-6 Fax : 91 - 44 - 22254707

E-mail : chennai@cipet.gov.in Website : www.cipet.gov.in

परीक्षण रिपोर्ट
TEST REPORT

को जारी / Issued to :

M/s. Sarvesh Multi Plast India Pvt. Ltd.,

S.F.No.367/I, Kothampalayam,

M.Pidariyur (P.O), Chennimalai – 638 051,
Erode (Dt.), Tamilnadu, India.

क्र.सं / SI. No. **20622**

रिपोर्ट सं / REPORT NO. : **60224**

Pages.....Nos. Part A,B,C & D

दिनांक / Date : **03.05.2019**

संदर्भ / Ref. : 137/SMP/2018-19 Dated: 23.03.2019

परीक्षण मानक स्तर के अनुसार परीक्षण रिपोर्ट / TEST REPORT AS PER TEST STANDARD : Refer Part C

भाग - क / PART - A

प्रस्तुत सैपिल का विवरण / PARTICULARS OF SAMPLE SUBMITTED

अ) सैपिल का नाम / a) Name of the Sample	UPVC Profile -as stated by the party
आ) सैपिल प्राप्त होने की तारीख / b) Date of Receipt of sample	03.04.2019
इ) ग्रेड/प्रकार/आकार/वर्ग / c) Grade / variety / type / size / class	Not applicable
ई) घोषित मूल्य / d) Declared value, If any	Not applicable
उ) कोड सं. / e) Code No.	Not applicable
ऊ) बैच सं. एवं निर्माण तारीख / f) Batch No. and Date of Manufacture:	Not applicable
ऋ) मात्रा / g) Quantity	01 Mtr X 6Nos.
ए) पैकिंग की रीति / h) Mode of Packing	Not Packed
ऐ) मोहर बंद या नहीं / i) Sealed or not	Not Sealed
ओ) कोई अन्य सूचना / j) Any other information	--

भाग - ख / PART - B

अनुपूरक सूचनाएँ / SUPPLEMENTARY INFORMATIONS

अ) सैपिलिंग कार्यवाहियों हेतु संदर्भ / a) Reference to sampling procedure	: Sampling not done by this lab
आ) माप करने हेतु लिए गए सहायक दस्तावेज एवं प्राप्त परिणाम ब) Supporting documents for the measurement taken and result derived	: As given in Part C
इ) संबंधित कार्य अनुदेशों में निर्धारित के अनुसार परीक्षण रीति से कोई परिवर्तन c) Deviation from the test method as prescribed in relevant work instructions, if any	: No deviation from the standard

रिपोर्ट सं / REPORT NO. : 60224

परीक्षण रिपोर्ट
TEST REPORT

क्र.सं / Sl. No. 20622

दिनांक / Date : 03.05.2019

भाग - ग / PART - C

परीक्षण परिणाम / TEST RESULTS

Test Duration: 03.04.2019 to 03.05.2019

Standard As per EN 12608

Sl. No.	Property	Clause No.	Standard	Unit	Results obtained	Specified Requirements
1.	Mass of Profile	5.4	--	g/m	1000.0	< 95% of nominal mass per meter length
2.	Resistance to impact @-10°C Falling mass (g) 1000.0 Falling Height (mm) 1500.0	5.6	--	--	No failure was observed	No more than one test specimen shall show rupture.
3.	Deviation from straightness	5.3.4	--	mm	0.10	< 1.0
4.	After heat ageing @ 150 ± 2°C for 24 hours Visual appearance	5.7.0	--	--	No defects cracks, peel off and delamination was observed visually	Shall be no defects, cracks surface peel off and delamination
5.	Flexural Strength	A.4.3	--	N/mm ²	49.6	--
6.	Vicat Softening Temperature (VST) @ 5kg load	A.4.1	--	°C	83.3	Minimum 75.0
7.	Density	--	ASTM D-792	g/cc	1.51	--

Contd....

2 of



Report No: **60224**

TEST RESULTS

Date: **03.05.2019**

Sl. No.	Property	Clause No.	Standard	Unit	Results obtained	Specified Requirements
8.	Hardness (Shore-D)	--	ASTM D-2240	--	79.0	--
9.	Tensile strength Test speed: 50mm/min	--	ASTM D-638	MPa	32.07	--
10.	Tensile Modulus	--	ASTM D-638	MPa	2625.24	--
11.	Flammability (Vertical burning)	--	UL-94	--	V ₀	--
12.	Flexural Modulus	--	ASTM D-790	MPa	2303.0	Minimum 2200.0
13.	TGA	--	--	--	Thermogram enclosed	--
14.	Filler Content	--	ASTM D-5630	%	5.56	--
15.	Resistance to weathering (*UV Exposure)		EN-12608			--
	A) Charpy impact strength	A.4.2				
	(i) Before UV Exposure			kJ/m ²	90.19	
	(ii) After 240 hours UV Exposure			kJ/m ²	85.48	
	B) Colour Measurement	5.8.3		--		
	i) Before UV Exposure					
	L				94.22	
	a				- 01.18	
	b				- 00.15	
	ii) After 240 hours of UV exposure			--		
	L				93.08	
	a				-00.94	
	b				01.22	
	ΔE				1.79	
	Source: D65 Observer: 10 deg					

Contd....

[Signature]
AUTHORISED SIGNATORY



CIPET
Chennai-32.



Continuation Sheet

TEST RESULTS

Report No:

60224

Date:

03.05.2019

UV Exposure Test conditions:

Test Method	: ASTM G 154
UV Light source	: Fluorescent lamp (QU-B) @ 313nm
Irradiance	: 0.71W/m ²
Light cycle	: 4 hours @ 50°C ± 2°C
Condensation cycle	: 4 hours @ 40°C ± 2°C
Total hours of UV Exposure	: 240 hours

PART - D

REMARKS - Nil

NOTE:

1. The results related only to the items tested as supplied by the party.
2. The test certificate shall not be reproduced in full except without the written approval of the laboratory.


AUTHORISED SIGNATORY

Sample: 2019/04/20

Operator: A.B
File: E:\TGA Data\TGA WO\19-20\1643\20190420.tfi



MAEON LABORATORIES

Instrument/Date: TGA55, 4/15/2019 4:11:16 PM
Sample Size: 18.1667 mg
Pan Type: Platinum HT
Project: 1643



Tested by:

Verified by:

