



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

An ISO - 9001:2008 Certified Institute

TEST CERTIFICATE

000300243

Issued to :

GUANGDONG LIANSU TECHNOLOGY INDUSTRIAL CO.LTD
LIANSU INDUSTRIAL ESTATE
LONGJIAN TOWN
SHUNDE ZONE, FOSAHAN CITY, GUANGDONG , CHINA

J.O.No. 309-141-1959
Reg.No. 1350330
Date 30-09-2013
GC-01 (REV-04)

Your Ref.No. -

Kind Attn: JANE CHEN

Sample Particulars:

One sample described as u-PVC profile 'PM 60-2 White [Door Sash], was received.

Date

"The sampling was not carried out by Shriram Institute for Industrial Research. The sample details provided in the test certificate are based on declaration by the party".

TEST RESULTS

<u>S.No.</u>	<u>Tests</u>	<u>Results</u>	<u>Protocol/method used</u>
1.	Density, g/cc	1.45	As per guidelines of ASTM D 792
2.	Limiting Oxygen Index, %	37	As per guidelines of ASTM D 2263
3.	Flexural Modulus, MPa	2449	As per guidelines of ASTM D 790
4.	Water Absorption, %	Nil	As per guidelines of ASTM D 570
5.	Vicat Softening Temperature, °C	84	As per guidelines of ASTM D 1525
6.	Hardness, Shore D	80	As per guidelines of ASTM D 2240
7.	Thermal Conductivity; w/mK	0.25	As per guidelines of ISO 22007 (Part2)
8.	Colour Fastness (Artificial weathering) [Up to blue wool standard rating of 4]	Better than 4	As per guidelines of ASTM G 155
9.	Resistant to Impact by falling mass (500g for at height of 2 meter)	No crack observed	As per guidelines of IS 4985
10.	Behavior after heat ageing (at 70°C for 96 h)	No colour change or any visual deformation observed	Using Heat Ageing Oven
11.	Heat Reversion, %	1.0	As per guidelines of IS 4985

D.O.R.: 07.09.2013

D.O.C.: 30.09.2013

AUTHORISED SIGNATORY
(EMPLOYEE CODE: 4063)



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LONGJIAN TOWN
SHUNDE ZONE, FOSAHAN CITY, GUANGDONG , CHINA

J.O.No. 309-141-1960
Reg.No. 1350330
Date 30-09-2013
GC-01 (REV-04)
Your Ref.No. -

Kind Attn: JANE CHEN

Sample Particulars:

One sample described as u-PVC profile 'PM 60-6 off- White [Window Sash], was received.

Date

"The sampling was not carried out by Shriram Institute for Industrial Research. The sample details provided in the test certificate are based on declaration by the party".

TEST RESULTS

<u>S.No.</u>	<u>Tests</u>	<u>Results</u>	<u>Protocol/method used</u>
1.	Density, g/cc	1.45	As per guidelines of ASTM D 792
2.	Limiting Oxygen Index, %	37	As per guidelines of ASTM D 2263
3.	Flexural Modulus, MPa	2376	As per guidelines of ASTM D 790
4.	Water Absorption, %	Nil	As per guidelines of ASTM D 570
5.	Vicat Softening Temperature, °C	84	As per guidelines of ASTM D 1525
6.	Hardness, Shore D	80	As per guidelines of ASTM D 2240
7.	Thermal Conductivity; w/mK	0.25	As per guidelines of ISO 22007 (Part2)
8.	Colour Fastness (Artificial weathering) [Up to blue wool standard rating of 4]	Better than 4	As per guidelines of ASTM G 155
9.	Resistant to Impact by falling mass (500g for at height of 2 meter)	No crack observed	As per guidelines of IS 4985
10.	Behaviour after heat ageing (at 70°C for 96 h)	No colour change or any visual deformation observed	Using Heat Ageing Oven
11.	Heat Reversion, %	1.0	As per guidelines of IS 4985

D.O.R.: 07.09.2013

D.O.C.: 30.09.2013

AUTHORISED SIGNATORY
(EMPLOYEE CODE 406)