



GVM TEST HOUSE
AND RESEARCH CENTRE

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TESTING | TRAINING | AUDITING

Report No.: GVM:APP: 05241-2/04/2024
ULR : TC906124000000863F

Date: 30-04-2024
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GRASIM INDUSTRIES LTD.

P.O. Birlagram, Nagda-456331, District Ujjain,
Madhya Pradesh, India

TEST REPORT ON SBS MEMBRANE

Source of sample : Sample Submitted by Customer
Number of samples Tested : 01 (One Only).
Condition of sample : Satisfactory
Customer's Reference : PO No.- 4900004436, dt. -15.04.2024
Date of Receipt : 18.04.2024
Lab Reference Number : 2024/APR/05241-2
Product Name# : Birla Opus Prime SB15 (1.5 mm SBS Modified Membrane)
Period of Test : 19.04.2024 To 30.04.2024

TEST RESULTS:

S. N.	Test Conducted	Unit	Test Results	Test Method
1	Thickness	mm	1.52	ASTM D 5147: 2018
2	Unit Weight	Kg/m ²	1.43	BS EN 1849-1: 2000
3	Tensile Strength – Longitudinal	N/mm ²	4.16	ASTM D 412: 2016
4	Tensile Strength – Transverse	N/mm ²	4.12	ASTM D 412: 2016
5	Elongation – Longitudinal	%	553	ASTM D 412: 2016
6	Elongation – Transverse	%	481	ASTM D 412: 2016
7	Tear Strength - Longitudinal	N	198	ASTM D 4073: 2016
8	Tear Strength – Transverse	N	184	ASTM D4073: 2016
9	Puncture Resistance	N	397	ASTM E 154: 2008
10	Low Temperature Flexibility, (-15°C)	Visual	No Cracking	ASTM D 5147: 2018
11	Heat Resistance at 110 °C, 2 Hrs	Visual	No Flow	IS 13826: Part 5: 1994
12	Resistance to Hydrostatic Head @ 5 Bar (51.0 meter)	Visual	Pass	ASTM D 5385: 2020
13	Water Absorption	%	0.14	ASTM D 5147: 2018
14	Dimension Stability @ 80 °C	%	0.15	ASTM D 1204: 2014
15	Softening Point	°C	152	ASTM D36: 2014
16	Peel Adhesion with Prime Concrete	N/mm	2.58	ASTM D 903: 1998
17	Lap Peel Adhesion	N/mm	2.16	ASTM D 1876: 2008
18	Dynamic Crack Bridging Ability -10 °C, 3.2 mm Extension & Compression 10 Cycles	Visual	Pass	ASTM C 1305: 2016

As furnished by the customer.

- Note: 1. The Results relate only to the samples tested.
2. Report shall not be reproduced, except in full, without the written approval of the lab.
3. Any correction invalidates this report.

For **GVM Test House And Research Centre**



DINESH BURDE

(Signature)
Authorised Signatory



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