

Making Roads Safer for Everyone



Thermoplastic Road Marking compound



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi – 110007 (India)
An ISO - 9001, 14001 & 45001 Certified Institute

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TEST REPORT

NO : C1/0000352265

15607

Issued To :
Client Code : (DLHI01A2314)
ALCOLITE INDIA ROAD SAFETY PRIVATE
LIMITED
GROUND FLOOR, 37/23
VILLAGE MUNDKA, WEST DELHI
DELHI
DELHI-110041
Kind Attn: KC BHATTACHARJEE

Date : 01-03-2024
Job No : 2402-1-182-1307
Booking No : RG2324/1/9200
Booking Date : 15-02-2024
Customer Ref No. : -
Customer Ref Dt. : 15-02-2024

Sample Description:

ONE SAMPLE DESCRIBED AS WHITE THERMOPLASTIC ROAD MARKING MATERIAL WAS RECEIVED.

"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 SPONSOR."

Job No.. 2402-1-182-1307

(AS PER MORTH SPECIFICATION FIFTH REVISION CLAUSE NO. 803.4)

S.NO.	Tests	Observation	Requirement	Conformity
1	Drying Time, minutes	less than 15	Less than 15	Yes
2	Softening Point, ° C	93	102.5 ± 9.5	Yes
3	Luminance, %	86	65 Minimum	Yes
4	Skid Resistance	45	Not Less than 45	Yes
5	Binder Content, %	21.8	18.0 Minimum	Yes
6	Cracking resistance at Low Temperature	The material showed no cracks on application to concrete blocks.	The material shall show no cracks on application to concrete blocks.	Yes
7	Glass Beads (spherical),(% by Wt.)	32	30 - 30	...
8	Titanium Dioxide (as TiO ₂), (% by Wt.)	12.0	10.0 Minimum	Yes

AUTHORISED SIGNATORY
EMPLOYEE CODE: (4209)

GC-01(Rev-05)

1/2

Note: The results relate only to the items tested / calibrated above.
Scanned copies/photocopies or any other copies should be authenticated by reference to the original report.



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TEST REPORT

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9	Calcium carbonate and Inert Filler, %	34.2	42.0 Maximum	Yes
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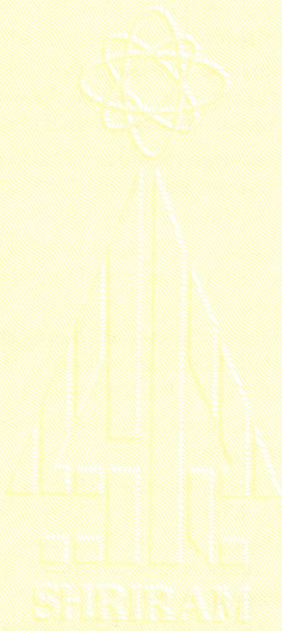
Method of Test: As per Guidelines of Morth Fifth Revision, BS: 3262 Part-1-1989, AASTHO M-249, Standard Method of Chemical Analysis by N. H. Furman, UV method & X-Rite Spectrophotometer.

Note: Conformity status could not be given of test S.No. 7 as Tolerance limit is not specified.

DOR: 15.02.2024
DOS: 16.02.2024
DOC: 01.03.2024

"END OF REPORT"

SHRIRAM INSTITUTE
FOR
INDUSTRIAL RESEARCH



Mohan
AUTHORISED SIGNATORY
EMPLOYEE CODE: (9209)



सत्यमेव जयते

भारत सरकार Government of India
राष्ट्रीय परीक्षण शाला (उ.क्षे.)
National Test House (NR)
राष्ट्रीय परीक्षण शाला (उ.क्षे.), कमला नेहरू नगर, गाज़ियाबाद, उत्तर प्रदेश – 201002
Kamla Nehru Nagar, Ghaziabad, Uttar Pradesh - 201002



Section Certificate No. : 24CHPA9ECN_1

MORTH 803 Thermoplastic Road Marking Material MORTH-5th Revision 2013 (2013)

PART B. SUPPLEMENTARY INFORMATION

1.	नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो। Reference to sampling procedure, wherever applicable.	Not Applicable
2.	परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रती हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ, यदि कोई हो। Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test certificate, if any.	Not Applicable
3.	सम्बद्ध मानक / कार्य निर्देशों में निर्धारित परीक्षण पद्धति से विचलन, यदि कोई हो। Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	Not Applicable
4.	परीक्षण सामग्री की पहचान/identification of Test item	Thermoplastic Road Marking Materials
5.	व्यावृत्त की प्राणाली की पहचान/Method(s) used for Test	AS PER MORTH
6.	नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant	-
7.	पर्यावरण की स्थिति/Environmental Conditions	AMBIENT
8.	उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used	SKID RESISTANCE TESTER
9.	कैलिब्रेशन स्थल/Site of Calibration	-
10.	मापन का पता लगाने की क्षमता/Traceability of Measurement	-

ANSHU MALA SHUKLA
OIC Testing/Calibration Chemical (Paint, High Polymer, Outdoor)
(Reviewed & Approved by)
Signed on: 09 Jul, 2024 13:08 PM

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Signature Not Verified
anshumala@nth.gov.
in-(OIC
Testing/Calibration)



भारत सरकार Government of India
 राष्ट्रीय परीक्षण शाला (उ.क्षे.)
National Test House (NR)
 राष्ट्रीय परीक्षण शाला (उ.क्षे.), कमला नेहरू नगर, गाज़ियाबाद, उत्तर प्रदेश – 201002
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 Revision 2013 (2013)

PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	803.4.1.2	Glass Bead content % (BS 3262 (Part 1))	-	30.0	40.0	%	35.71
2	803.4.1.2	Titanium Dioxide, as TiO2 % by mass (BS 3262 (Part 1))	-	10.0	-	% by mass	10.28
3	803.4.1.2	Colour	white/Yellow	-	-	-	White
4	803.4.1.2	Binder Content % by mass (BS 3262 (Part 1))	-	18.0	-	%	19.76
5	803.4.1.2	Calcium carbonate and Inert fillers (BS 3262 (Part 1))	percent	-	42.0	Perce nt	34.25
6	803.4.1.2	Luminance (White) (Daylight luminance at 45 degrees)	-	65.0	-	Perce nt	84
7	803.4.1.2	Luminance (Yellow)	percent	-	-	-	Test Not Applicable
8	803.4.1.2	Drying Time	Minutes	0.0	15.0	Minut es	Less than 15 minute
9	803.4.1.2	Skid Resistance	-	45.0	-	% by mass	58
10	803.4.1.2	Cracking Resistance (BS 3262 (Part 1))	-	-	-	-	Satisfactory to pass the test. No crack Observed.
11	803.4.1.2	Softening point (BS 3262 (Part 1)) ASTM D 36	Deg.C	93.0	112.0	Deg.C	94
12	803.4.1.2	Flow resistance (BS 3262 (Part 1))	Percent	0.0	25.0	Perce nt	Less than 25 %
13	803.4.2	Yellowness Index	-	0.0	0.12	-	0.04

SUDHAKAR JAISWAL
 Lab Sc. Testing/Calibration Chemical (Paint, High Polymer, Outdoor)

ANSHU MALA SHUKLA
 OIC Testing/Calibration Chemical (Paint, High Polymer, Outdoor)

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Revision 2013 (2013)

Part D.

REMARKS

The sample meets the requirements of MORTH (Vth Revision) Clause 803.4 Traffic Signs, Marking and other road Appurtenances for Thermoplastic Road Marking Materials in respect of the tests carried out.

Notes

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ANSHU MALA SHUKLA
OIC Testing/Calibration Chemical (Paint, High Polymer, Outdoor)
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