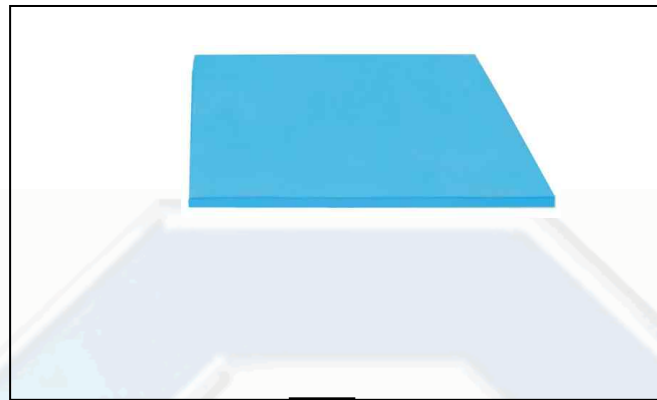


Test Report No. GGN/H(FCM)/16/000038
Dated 2016.01.28



South Asia



A



Note: (1) General Terms & Conditions as mentioned overleaf, (2)The results relate only to the items tested, (3)The test report shall not be reproduced except in full without the written approval of the laboratory, (4) For details of the accredited scope please contact the laboratory or Accreditation body

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Mumbai – 400072. India

Test Report No. GGN/H(FCM)/16/000038

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South Asia

Choose certainty.
Add value.

Company Name : Zenith Industrial Rubber Products Pvt. Ltd.
Address : Plot No. C-15, C-16, C-17, Dombivli Industrial Estate,
Phase-I, Dombivli (East), Dist. Thane – 421203
Contact Person : Mr. Keshavlal Koiri
Tested Sample : Received on 2016.01.11 at 3:09 p.m.
Test Period : 2016.01.13 to 2016.01.28
Sample Description : Silicone Food Grade Rubber Sheet, SI 60120 F, Blue
Colour : Blue
Objectives of Examination : 1. Sensory Verification (Transfer of Taste and Odour/Smell)
2. Overall migration
3. Specific migration of formaldehyde

Note: The submitted sample(s) is/are Not Drawn by the Laboratory

Remarks:

1. Sample(s) is/are tested as on-received basis.
2. Test(s) performed as requested by Applicant.
3. Conclusion of test "Sensory Verification" was drawn as per contemporary & accepted industrial practice.
4. Selections of simulants & test conditions were done taking into account the worst foreseeable conditions of use of the finished product.

Prepared By

Sourav Bhattacharya
Report Reviewer

Authorized By

Anuradha Dhamija
Authorized Signatory

Please Contact:

For any technical issues: Anuradha Dhamija at Anuradha.Dhamija@tuv-sud.in

For any complaint: Krishna Deori at Krishna.Deori@tuv-sud.in

By accepting this document the customer hereby agrees and accepts the 'Terms & Conditions' and the relevant 'Testing & Certification Regulations' of TÜV SÜD South Asia Pvt. Ltd. which are available at Company's website at the link- <http://www.tuv-sud.in/in-en/resource-centre/terms-and-conditions>

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Material List/List of Materials (As confirmed by Applicant)

Component No.	Component Description	Material	Colour
A	Silicone Food Grade Rubber Sheet	Silicone	Blue

Sampling Plan (As requested by Applicant)

S. No.	Test	Component No.
1.	Sensory Verification (Transfer of Taste and Odour/Smell)	A
2.	Overall migration	A
3.	Specific migration of formaldehyde	A

Summary of Test Result(s)

S. No.	Test	Conclusion (Pass/Fail)
1.	Sensory Verification (Transfer of Taste and Odour/Smell)	Pass
2.	Overall migration	Pass
3.	Specific migration of formaldehyde	Pass

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Test Results:-

(Test No. 1-i) Sensory verification of Odour/Smell				
Test Specification(s)/Regulation(s): Regulation (EC) No. 1935/2004 & Council of Europe Resolution ResAP (2004) 5 on silicones to be used for food contact applications; Test method adopted: DIN 10955:2004; Simulant(s) used: Distilled water; Test condition(s): 100 °C or reflux for 4 hours.				
Component No.	Test Parameter	Result (Grade)	Compliance Requirement/Limit Max.	Conclusion (Pass/Fail) (Refer Remark 3 on Page No. 2)
A	Rating	1	Less than 2.5	Pass
Note: (Intermediate grades are allowed) 0 = no perceptible difference in odour; 1 = just perceptible difference in odour (still difficult to define); 2 = slight difference in odour; 3 = marked difference in odour; 4 = strong difference in odour.				

(Test No. 1-ii) Sensory verification of Taste				
Test Specification(s)/Regulation(s): Regulation (EC) No. 1935/2004 & Council of Europe Resolution ResAP (2004) 5 on silicones to be used for food contact applications; Test method adopted: DIN 10955:2004; Simulant(s) used: Distilled water; Test condition(s): 100 °C or reflux for 4 hours.				
Component No.	Test Parameter	Result (Grade)	Compliance Requirement/Limit Max.	Conclusion (Pass/Fail) (Refer Remark 3 on Page No. 2)
A	Rating	0	Less than 2.5	Pass
Note: (Intermediate grades are allowed) 0 = no perceptible difference in taste; 1 = just perceptible difference in taste (still difficult to define); 2 = slight difference in taste; 3 = marked difference in taste; 4 = strong difference in taste.				

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(Test No. 2) Overall migration

Test Specification(s)/Regulation(s): Council of Europe Resolution ResAP (2004) 5 on silicones to be used for food contact applications;
 Test method(s) adopted: With reference to EN 1186-3:2002 (for 3 % acetic acid) & EN 1186-14:2002 (for 95 % ethanol and iso-octane);
 Simulant(s) used: Refer below;
 Test condition(s): Refer below (Note: Tests conducted under repeat use conditions).

S.No.	Simulant used	Test condition(s)	Component No.	Result (mg/dm ²)	Compliance Requirement/Limit Max. (mg/dm ²)	Conclusion (Pass/Fail)
1.	3 % acetic acid	100 °C or reflux for 4 hours	A	ND	10	Pass
2.	95 % ethanol	60 °C for 6 hours	A	ND	10	Pass
3.	Iso-octane	60 °C for 4 hours	A	ND	10	Pass
Overall Conclusion (Pass/Fail)						Pass
Limit of Quantification: 2.0 mg/dm ²						
Note: (1) "mg/dm ² " denotes milligram per square decimetre; (2) "°C" denotes degree Celsius; (3) "%" denotes per cent; (4) "ND" denotes Not Detected.						

(Test No. 3) Specific migration of formaldehyde (CAS No. 50-00-0)

Test Specification(s)/Regulation(s): Council of Europe Resolution ResAP (2004) 5 on silicones to be used for food contact applications;
 Test method(s) adopted: With reference to EN 13130-1:2004 followed by analysis as per DD CEN/TS 13130-23:2005;
 Simulant(s) used: Refer below;
 Test condition(s): Refer below (Note: Tests conducted under repeat use conditions).

S.No.	Simulant used	Test condition(s)	Component No.	Result (mg/kg)	Compliance Requirement/Limit Max.	Conclusion (Pass/Fail)
1.	3 % acetic acid	100 °C or reflux for 4 hours	A	ND	15 mg/kg	Pass
2.	95 % ethanol	60 °C for 6 hours	A	ND	15 mg/kg	Pass
3.	Iso-octane	60 °C for 4 hours	A	ND	15 mg/kg	Pass
Overall Conclusion (Pass/Fail)						Pass
Limit of Quantification: 10.0 mg/kg						
Note: (1) "mg/dm ² " denotes milligram per square decimetre; (2) "°C" denotes degree Celsius; (3) "%" denotes per cent; (4) "ND" denotes Not Detected.						

---- END OF THE TEST REPORT ----

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