

TEST RESULT CERTIFICATE

Sponsor	Rogers Corporation	Technical Initiation	7/20/2016
Address	171, West Street Charles Road Carol Steam, Illinois 60188	Technical Completion	7/21/2016
Contact	Mohammad Zubair	Report Date	7/27/2016
P.O. Number	Credit Card	Final Non-GLP Report	16-02338-N1

Test Article	1. MF1-55 Gray 0.094", Lot # 151097-0201	Vehicle	Purified Water and Hexane
Lot/Batch No#	1. MF1-55 Gray 0.094", Lot # 151097-0201	Extraction Conditions	Reflux / 7 hours, Reflux / 2 hours
Study	Total Extractables per 21 CFR 177.2600 Rubber Articles Intended for Repeated Use		
Comments	Both water and hexane were used (not pooled)		

REFERENCES: The study was conducted based upon the following references: 21 CFR Part 177.2600, 2015, "Rubber Articles Intended for Repeated Use".

ISO/IEC 17025, 2005, General Requirements for the Competence of Testing and Calibration Laboratories.

GENERAL PROCEDURE: The purpose of the study was to analyze total extractables. The study and its design employed methodology to minimize uncertainty of measurement and control of bias for data collection and analysis.

Known surface areas (15 in²) of the test article were separately extracted in 150 mL of purified water and hexane for 7 hours. At that time, the solvents were removed and replaced by a second aliquot of 150 mL of purified water and hexane, and extracted for an additional 2 hours. Samples were evaporated to dryness and residue per surface area was calculated.

RESULTS: The results are presented in tables below.

TABLE 1
Results of Purified Water Extract

Reflux time	Results	Evaluation Criteria	Meets Criteria
First 7 Hours	0.00 mg/in ²	≤ 20 mg/in ²	Yes
Second 2 Hours	0.00 mg/in ²	≤ 1 mg/in ²	Yes

TABLE 2
Results of Hexane Extract

Reflux time	Results	Evaluation Criteria	Meets Criteria
First 7 Hours	1.64 mg/in ²	≤ 175 mg/in ²	Yes
Second 2 Hours	0.01 mg/in ²	≤ 4 mg/in ²	Yes

CONCLUSION: The test article results are as reported above, when tested using the method found in 21 CFR Part 177.2600, 2014, "Rubber Articles Intended for Repeated Use".

AUTHORIZED PERSONNEL:



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