



CONSTRUCTION MATERIALS

TECHNOLOGIES

LABORATORY TEST RESULTS

Report for: Shredded Tire
6680 MW 17th Ave
Ft. Lauderdale, Florida 33309

Attention: Adnan Velic

Product Name(s): Echo Manufactured by Shredded Tire Inc.	Manufacturer: Shredded Tire Inc.
Date(s) Received: March 14, 2015	Sampling: Shredded Tire Inc.
Project No.: DKTT-002-02-01	Date(s) Tested: March 15-17, 2015

Purpose: Determine the thermal resistance in accordance with **ASTM C 518: Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.**

Test Methods: Testing was completed as outlined in ASTM C 518: *Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.* Thermal resistance specimens were evaluated as received.

A Holometrics (Netzch-Gerätebau GmbH) Model Lambda 2300 was used for the ASTM C 518 testing. This instrument was calibrated on Dec. 4, 2014 using 1450c NIST traceable primary standards. The calibration used multiple temperature points. The instrument has two heat flux transducers. The instrument is verified weekly using the 1450c NIST traceable primary standards. The measurement uncertainty of this instrument, taking into account the standard only, is estimated at 2.6 percent with 95 percent confidence as estimated in NIST Special Publication 260-130. The instrument uncertainty is estimated at a maximum of 1.0 percent with 95 percent confidence based upon repetitive determinations of the 1450c standard and instrument specifications.

Product Sampling: Specimens were received on April 24, 2015 by PRI.

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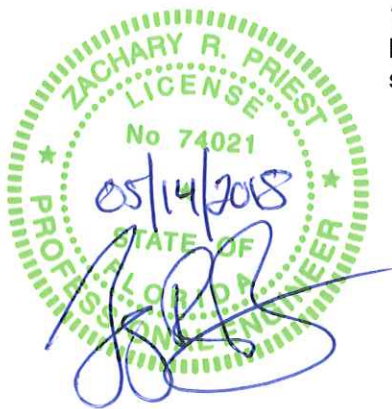
Results of Testing:

ASTM C 518:

Sample/ Condition	Thickness (in)	Temperature Gradient (°F/in)	Mean Temperature (°F)	Thermal Conductance k (Btu·in / ft ² ·°F·h)	Thermal Resistance R (°F·h·ft ² / Btu)
S1	3.25	12.7	75	0.811603	4.2576
S2	3.25	12.8	75	0.797326	4.2932
S3	3.25	12.4	75	0.822080	4.2702
S4	3.25	12.7	75	0.805698	4.2595
S5	3.25	12.7	75	0.805594	4.2516
Average	3.25	12.6	75	0.808460	4.2664

R-value per inch (Thermal resistance/average thickness) = 1.3127

Statement of Attestation: The thermal resistance of this material was determined in accordance with **ASTM C 518: Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus**. The laboratory test results presented in this report are representative of the material supplied.



Signed: 
 Christopher Freidner
 Client Service Manager

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	02/01/2016	2	NA
Rev 1	05/14/2018	2	Re-issued to FLPE seal and report addendum

END OF REPORT

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Report Addendum

Issue #	Changes and/or additions
Rev 1	The client has stated the product name for this sample has been changed to "Echo Flow".

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