

Report No. 7191193046-MEC18-FT (221415118)
dated 06 Sep 2018

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SUBJECT:

Determination of thermal conductivity of insulation material sample.

TESTED FOR:

SUPERLON WORLDWIDE SDN. BHD.
Lot 2567, Jalan Sungai Jati,
41200 Klang, Selangor Darul Ehsan, Malaysia
Attn: Joanna Chuang

TEST METHODS:

- 1) ASTM C518 : 2010 Standard test method for steady-state thermal transmission properties by means of the heat flow meter.
- 2) The thermal conductivity of material was measured by using a heat flow meter calibrated with standard fibreglass sample of thickness of 25mm.

SAMPLE DESCRIPTION:

1 sample with nominal size of 300mmL x300mmW x 13mmTK was submitted on 27 Aug 2018 and claimed to be as follow:

Brand Name / Model: SUPERLON
Type of Product: Insulation Material
Type of Material: Nitrile Butadiene Rubber (NBR)
Nominal Density: 50-60 kg/m³
Nominal thickness: 13mm

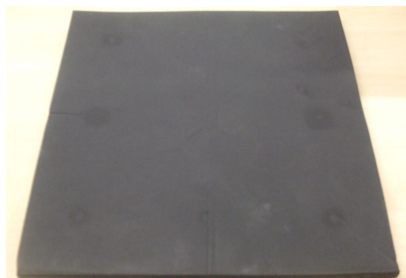


Photo 1: Sample as received, Side 1



Photo 2: Sample as received, Side 2



LA-2007-0380-A LA-2007-0384-G
LA-2007-0381-F LA-2007-0385-E
LA-2007-0382-B LA-2007-0386-C
LA-2007-0383-G LA-2010-0464-D

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TEST RESULTS:

Thermal Conductivity Test		
Test	Unit	Sample
a. Dimension of sample	mm	297 (L) x 293 (W) x 13 (TK)
b. Bulk Density	kg/m ³	60.05
c. Temperature of hot face	°C	29.88
d. Temperature of cold face	°C	9.80
e. Mean temperature	°C	19.84
f. Apparent Thermal conductivity	W/mK	0.0334
	(Kcal/mhK)	0.0287

Remarks: 1- 1 W/mK = 0.859845 Kcal/mhK
2- The average of 3 runs were reported.
3- The test was conducted on 04 Sep 2018.

Fabien Tan
Testing Officer
Engineer

Tan Boon Kwee
Assistant Vice President
Building & Acoustics Group
Real Estate & Infrastructure
Mechanical

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July 2011

