

ASTM D5334 Thermal Resistivity Testing Results, May 2017

The thermal resistivity (rho) of four samples received from under RMA was measured at the as-received density and water content using the TEMPOS thermal properties analyzer with the TR-3 sensor in accordance with ASTM-D5334. The TEMPOS was configured in high power mode with a 5 minute read time. The accuracy of the TR-3 sensor and associated TEMPOS unit was verified using a Delrin verification standard immediately before the measurements on the test samples. Thermal rho measurements were made in three different sensor insertion locations in each sample. All measurements were performed at room temperature. Data from the four samples are presented in Table 1 and Figure 1.

Sample identification information is as follows

Test location #1

Test location #2

Test location #3

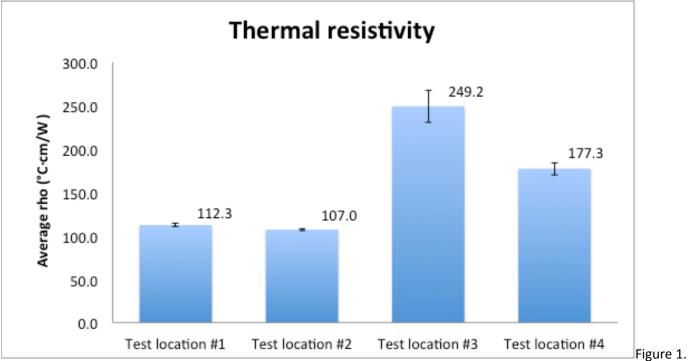
Test location #4

Sample	Average rho (°C·cm/W)	Standard deviation
Test location #1	112.3	1.57
Test location #2	107.0	1.14
Test location #3	249.2	18.49
Test location #4	177.3	7.20

Table 1. Measured thermal resistivity for the test samples in SI units. The values represent the average of three measurements on each sample.







Measured thermal resistivity for the test samples in SI units. The values represent the average of three measurements on each sample and the error bars represent ±1 standard deviation.

Please don't hesitate to contact me with questions or comments.

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