

Job Number: 27787 TR

Joe Brandenburg  
Asphalt Materials  
940 North Wynn Road  
Oregon, OH 43616

**MOCON**<sup>®</sup>

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**TESTING  
SERVICE**

**Transmission Rate Results**  
We are pleased to submit the  
results of our transmission rate  
measurements of your material  
submitted under:

SO#: 87920

Dated: 1/30/07

Test Conditions:

Test Gas	Methane	Test Temperature	23 (°C)
Test Gas Concentration	100%	Carrier Gas	100% Helium
Test Gas Humidity	0 % RH	Carrier Gas Humidity	0 % RH

Test Results:

Sample Identification	Methane Transmission Rate cc/(m <sup>2</sup> ·day)	
	Replicate #1	Replicate #2
Instacoat and D-MaX Rubber Shield	Less than 5	Less than 5

Note 1: Above samples were analyzed on a MOCON Multi-Tran 400 instrument utilizing a TCD sensor and accumulation method. The lowest detection limit is 5 cc/(m<sup>2</sup>·day) for this method.

Note 2: Separate background tests (both sides flushed with Helium carrier gas) of this material indicate a lot of unknown chemicals released from the sample itself. The amount outgassing is so great that it makes no significant difference between the background vs. the methane permeation (plus the background). Therefore, the detection limit of this method is reported.

Test Operator: Georgia Gu

Date: February 15, 2007

Test Operator: *Georgia Gu*

Date: *2/15/07*

Reviewed By: *JMR*

Date: *2/15/07*

This information represents our best judgement based on work done, but the company (MOCON) assumes no liability whatsoever in connection with the use of information or findings contained herein