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March 11, 2002

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SUBJECT: Physical testing on material submitted by the above company to ASTM D 545 test specification.
PO# REFLEX022002

RECEIVED: Thirty-six (36) 4" x 4" x 1/2" squares identified as REFLEX Rubber Expansion Joint Material.

EXPANSION IN BOILING WATER, PARA. 7.1

Specimens immersed 1 hr. in boiling Distilled Water.

RESULTS

Expansion, % of Original 101.9

RECOVERY & COMPRESSION, PARA. 7.2

Specimens compressed to 50% of thickness at a rate of 0.05 in/min.

RESULTS

REQUIREMENTS

PASS/FAIL

Force to Compress, psi	721	100 – 750	Pass
Recovery, %	93.9	70 min.	Pass

EXTRUSION, PARA. 7.3

Specimen confined on three sides and compressed to 50% of thickness at a rate of 0.05 in/min.

RESULTS

REQUIREMENTS

PASS/FAIL

Extrusion, in.	0.143	0.25 max.	Pass
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BOILING IN HCL, PARA. 7.4

RESULTS

There was no appearance of disintegration

ASPHALT CONTENT, PARA. 7.5

The sample was extracted in Trichloroethylene for 16 hrs. and dried.

	<u>RESULTS</u>	<u>REQUIREMENTS</u>	<u>PASS/FAIL</u>
Asphalt, %	23.7	35 min.	Fail

WATER ABSORPTION, PARA. 7.6

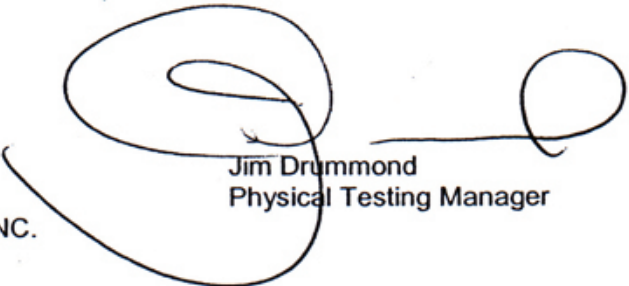
Specimens immersed 24 hrs. @ room temperature in Distilled Water.

	<u>RESULTS</u>	<u>REQUIREMENTS</u>	<u>PASS/FAIL</u>
Absorption, %	5.2	15 max.	Pass

DENSITY, PARA. 7.7

	<u>RESULTS</u>	<u>REQUIREMENTS</u>	<u>PASS/FAIL</u>
Density, lb/ft ³	46.2	19 min.	Pass

Mike Akins 
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AKRON RUBBER DEVELOPMENT LABORATORY, INC.


Jim Drummond
Physical Testing Manager