

ISO 9001



Committed to Quality

TEST REPORT

CRT LABORATORIES, INC.

1680 North Main Street, Orange, CA 92867

(714) 283-2032 • (800) 597-LABS (5227) • Fax (714) 283-1365

www.crtlabs.com • e-mail: crtlibs@pacbell.net

FOR: Simeken, Inc.
1241 E. Burnett
Signal Hill, CA 90755
Tel: (562) 595-4501 / Fax: (562) 424-8026
ATTN: Mr. Jim Sipprelle

LWR NO.: 16420 DATE: October 7, 2005

ASTM Physical & Mechanical • Chemical-Thermal Analysis • IAPMO Cell Class
Geosynthetic Materials • Plumbing & Faucet Assemblies • Resin & Finished Product Testing

BACKGROUND:

Customer submitted one (1) carbon black sample consisting of four (4) bags of material for testing. The samples arrived on 09/21/2005 via customer delivery. Visual inspection was performed on date received and no shipping discrepancies were noted. Samples submitted to identify composition and activity. Testing to be performed per customer P.O. # "verbal Jim S.," signed CRT quotation dated 09/21/2005. The following additional information is provided:

CRT Order Entry Log Date: 09/22/2005

Sample Description: Rubber char sample received 09/21/2005

SPECIFICATION:

Not specified

TEST PROCEDURES:

Chemical analysis - per CRT methods

The samples were weighed and combusted to determine percent carbon. The resultant ash was digested and analyzed by atomic absorption.

Carbon tetrachloride activity - per ASTM D 3467

Thermal gravimetric analysis - per ASTM D 3850, 25 - 1000°C at 10°C/min. with Nitrogen purge at 40cc/min.

TEST SUMMARY:

The sample is 92.9% carbon with a CTC activity of 2.3%. The major ash ingredients are silica and zinc oxide. TGA analysis shows a water drop off and no other organic contaminates.

RESULTS:

Test results are shown in Table 1, attached. TGA analysis chart included as separate attachment.

Specimen Retain Bin: #RD (30 day hold only)

CRT LABORATORIES, INC.

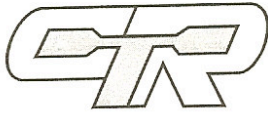
UL Registered Firm / ISO 9001:2000 Certified / ISO-IEC 17025 Compliant

Handwritten signature of Ken A. Le Jeune

Ken A. Le Jeune
President-CEO / Director

Handwritten signature of Tom J. Parsons

Tom J. Parsons
General Manager



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**TABLE 1**

**Product ID:** Rubber char sample received 09/21/2005

### CHEMICAL ANALYSIS

Determination	Sample 1 (%)	Sample 1 (% Total)
Total ash		7.10
Carbon		92.9
Ash analysis		
Aluminum oxide	0.22	0.016
Titanium oxide	ND	
Calcium as carbonate	0.15	0.011
Magnesium as carbonate	0.062	0.0044
Iron oxide	0.68	0.048
Glass fiber	ND	
Manganese	0.0056	0.00040
Copper	0.013	0.00092
Nickel	0.028	0.0020
Chromium	0.0013	0.000092
Zinc oxide	2.00	0.14
Silica	5.0	0.35
Carbon Tetrachloride (CTC) Activity		2.3
TGA analysis - weight loss in nitrogen from 180°F to 1200°F		17.97

File: T:\TGA\2005\251600\251669.001  
Operator: RN  
Run Date: 5-Oct-05 10:39  
Instrument: Auto TGA 2950HR V5.4A

# TGA

Sample: CRT LABORATORIES, INC.  
Size: 19.4130 mg  
Method: 25/1000/10°C  
Comment: BLACK RUBBER CHAR ID# 16420

