



TEST REPORT

Laboratory test of a performance infill product

Tests performed according to EN 933, EN 1097, EN 14955, EN 14836 and ISO 105-A02 standards

Report Number **R17107CAN-A1**

Product **Superior Infill**

Client **Superior Rubber and Mulch**
Whitby, ON L1N 2H8, Canada

Date **November 22nd, 2017**

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LABOSPORT CANADA

5661, rue de Lanaudière, Suite 100, Montréal (Québec) H2G 3A5 CANADA
contact@labosport.ca
Tel. +1 514 277 9111 • Fax. +1 514 277 9112

www.labosport.com

Laboratory test of a performance infill product

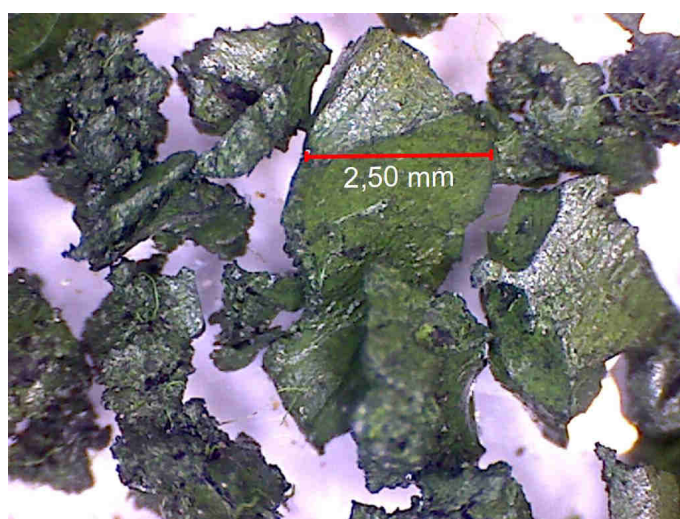


INFORMATION

Description of the product tested	Green coated elastomer granules			
Product name	Superior rubber			
Manufacturer	Superior Rubber and Mulch			
Type of polymer declared	SBR			
Sample number	CAN002499			
Date of reception	April 3 rd , 2017			
Date of the tests	April to November 2017			
Temperature	Min	23°C	Max	24°C
Humidity	Min	48 %	Max	50 %



General view



Microscopic view

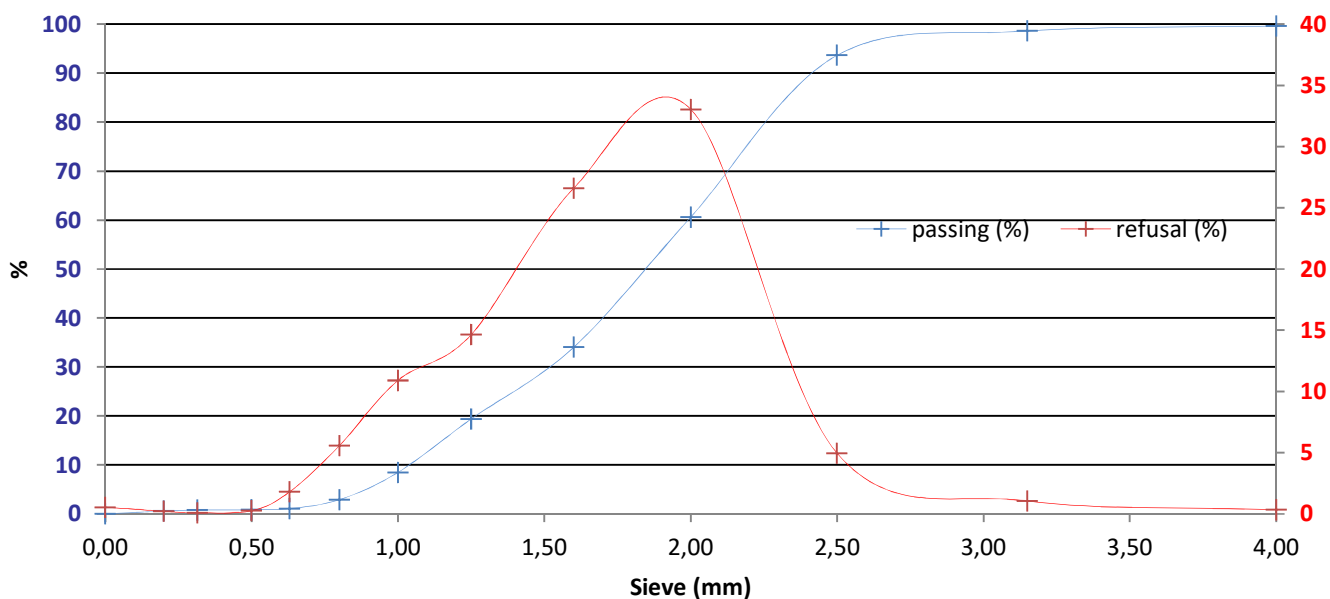
IDENTIFICATION

Property	Method	Units	Results
Particle size	EN 933	mm	1.0 – 2.5
Bulk density	EN 1097	g/cm ³	0.49
Particle shape	EN 14955	-	Round – A2
Color	Visual	-	Green
Chemical characterization	Thermogravimetric analysis (TGA)	% organic	62.6
		% inorganic	37.4

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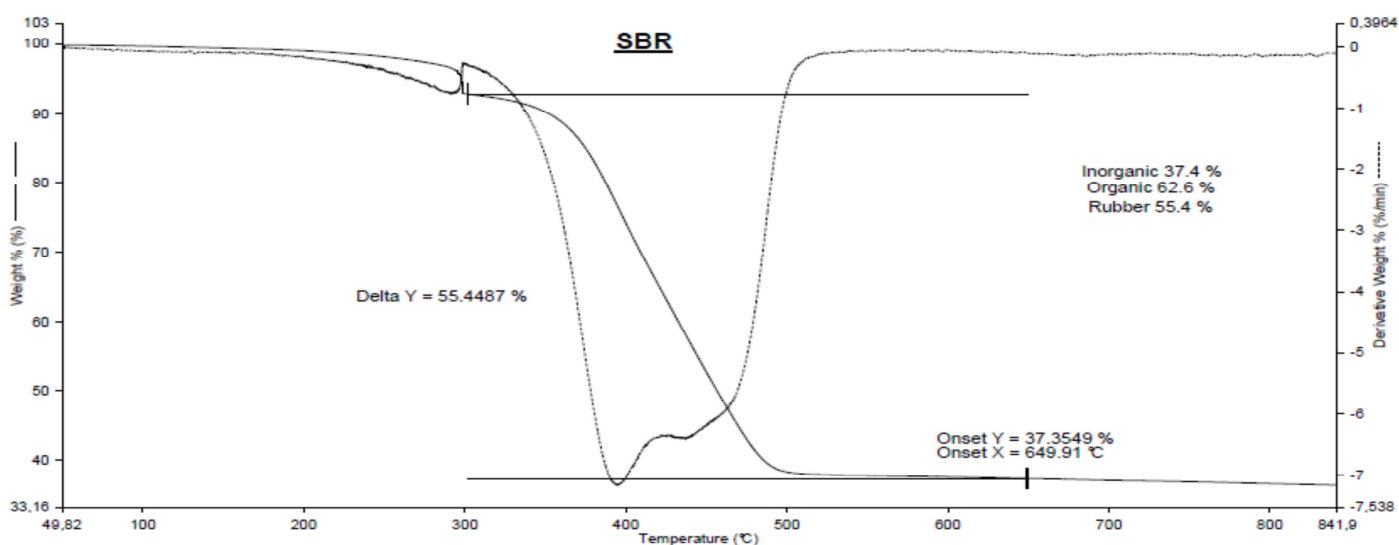
PARTICLE DISTRIBUTION

Sieve (mm)	0,000	0,200	0,315	0,500	0,630	0,800	1,000	1,250	1,600	2,000	2,500	3,150	4,000
Refusal (%)	1	0	0	0	2	6	11	15	27	33	5	1	0
Passing (%)	0	1	1	1	1	3	8	19	34	61	94	99	100



THERMOGRAVIMETRIC ANALYSIS (TGA)

Data Collected: 19/04/2017 18:39:24	17107 CAN: CAN 002499 (2075-01)
Operator ID: AKI	Unsubtracted Weight % (%): Steps: 1-8
Sample ID: 17107 CAN	17107 CAN: CAN 002499 (2075-01)
Sample Weight: 55.328 mg	Derivative Unsubtracted Weight % (%/min) (Smoothed): Steps: 1-8
Initial Purge Gas: Nitrogen	
Comment: PerkinElmer TGA4000 - Serial number 522A2092805 - calibration : alumel / perkallloy / iron	



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UVA WEATHERING

Property	Method	Condition	Units	Requirements		Results	Pass / Fail
				FIFA (2015 Manual)	World Rugby (2015 Manual)		
Color change	EN ISO 20105-A02	After UV EN 14836 (5000h)	Gray scale index*	≥ 3	≥ 3	4	Pass
Visual aspect	Visual		-	No cracking or agglomeration	No cracking or agglomeration	No cracking or agglomeration	

*Grey Scale: 1 – 1/2 – 2 – 2/3 – 3 – 3/4 – 4 – 4/5 – 5 (=No change)

Pictures:

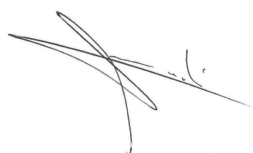


Before UV ageing



After UV ageing

REPORTED BY



Thomas Amadei, T.P.
(Laboratory Manager) - Writer



Thierry Levy
(General Manager) - Approver

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