

TEST REPORT

Laboratory tests on an infill material for artificial turf system

Tests performed according to the standards listed in the quote Q21413CAN

Report Number R21413CAN-A1-Roller Infill

Product TTII Pro-Max 37 TPE
TTII

Client John B. Giraud,
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Date November 18th, 2021

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GENERAL INFORMATION

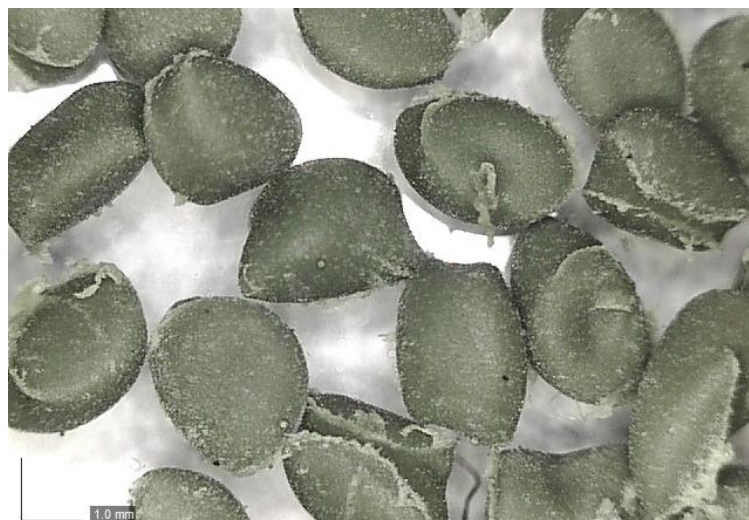
Product description	Performance infill – Thermoplastic elastomer			
Product name	TTII Pro-Max 37 TPE			
Date of tests	October 2021 – November 2021			
Temperature (°C)	MIN	22	MAX	24
Humidity (%)	MIN	49	MAX	51

SAMPLE INFORMATION

Colour	Green			
Bulk density	0.79 g.cm ⁻³			
Particle shape	C2			
Sample Number	CAN002491			



General View



Microscopic View

ROLLER INFILL – FRIABILITY/DURABILITY-EN 15330-5 ANNEX C



Comparison before (left) and after (right) Roller infill testing

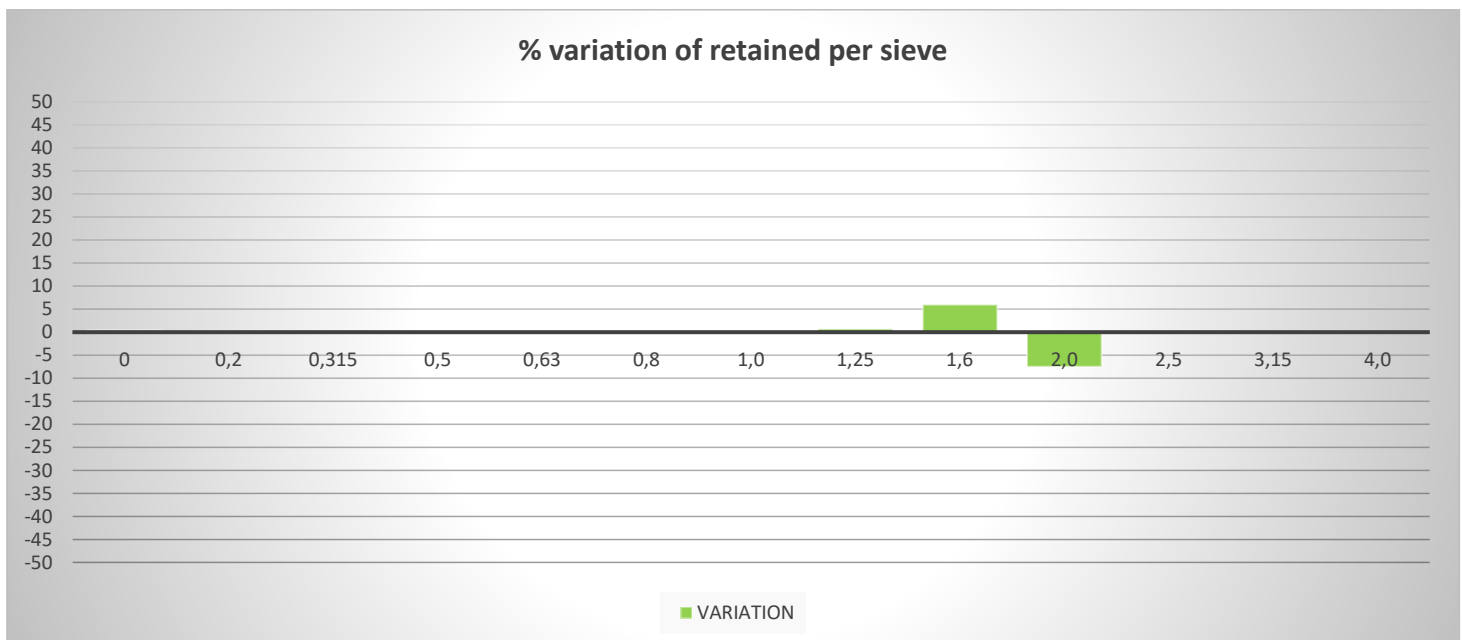
TEST PROTOCOL

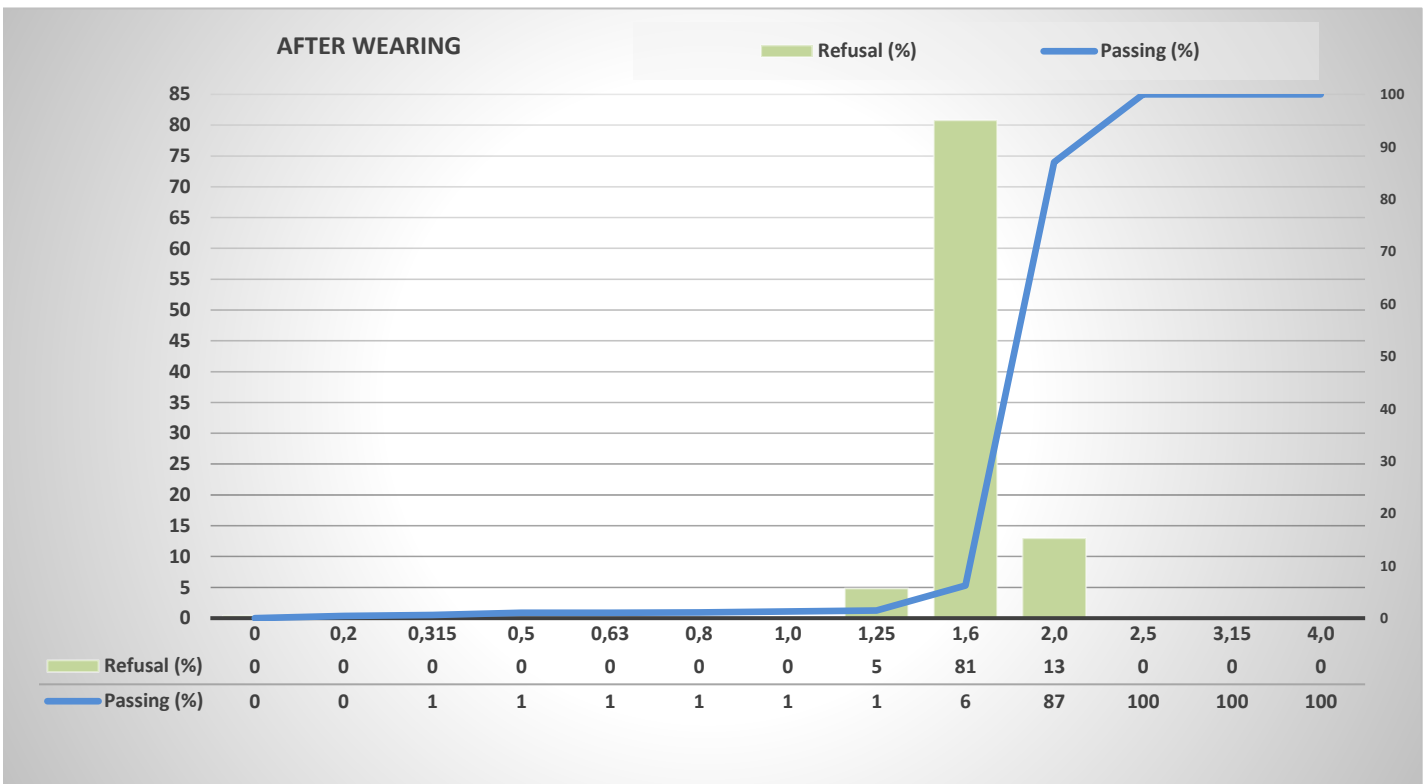
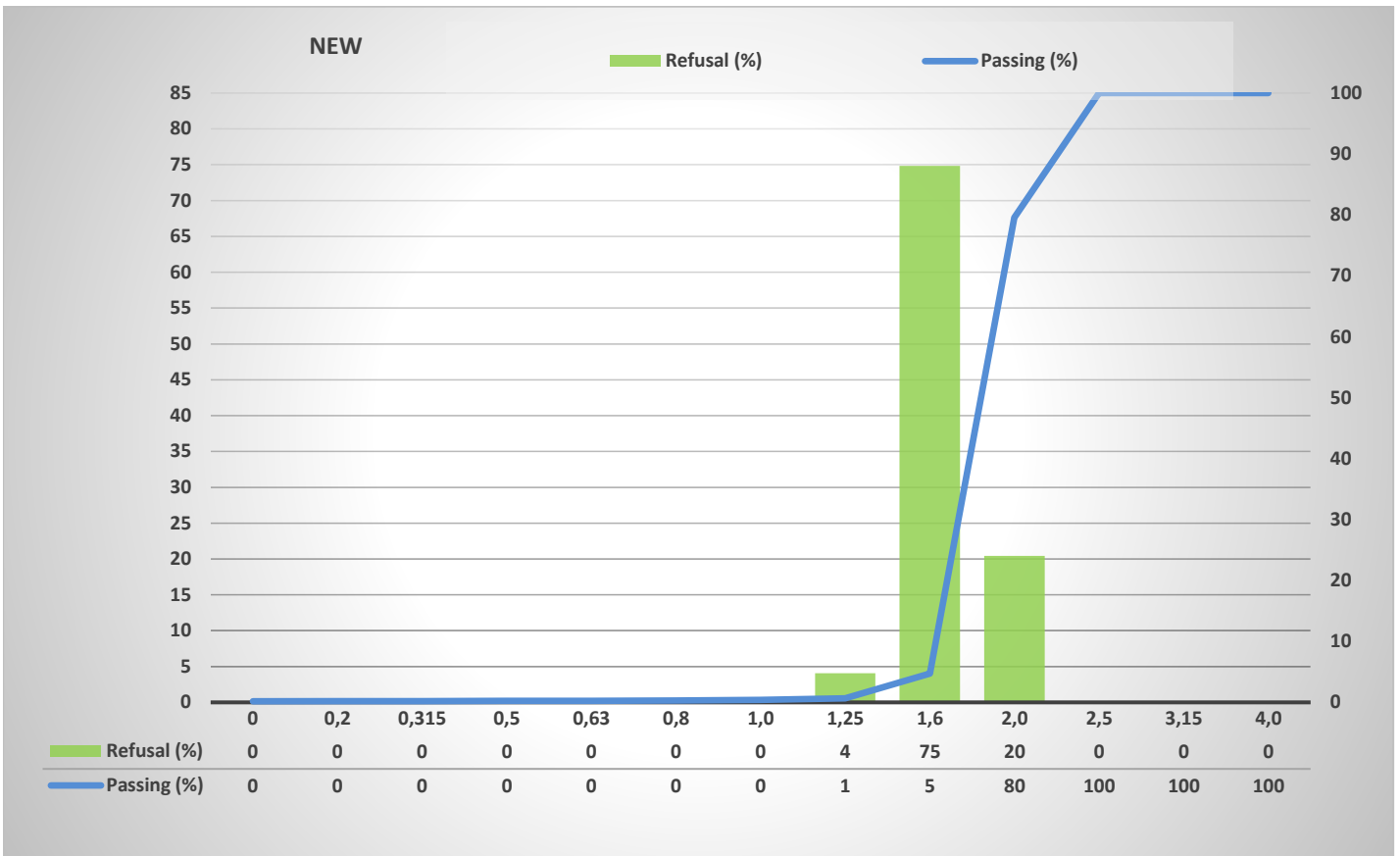
Friability of an infill measure its resistance to mechanical wear by usage, which conduct changes of its particles size distribution. The greater variation in particles size distribution, the greater the friability. This test method consists in the evaluation of a product friability by comparison of its particles size distribution before and after being processed through 20,000 cycles of Labosport Roller Infill equipment for simulated wear of performance infill.

Property	Test method	Condition		Variation
		Before wearing	After wearing*	
Particle size	EN 933-1	1.6 – 2.5 mm (8 – 12 mesh)	1.6 – 2.5 mm (8 – 12 mesh)	8 %**
Bulk density	EN 1097-3	0.79 g/cm ³ (49.32 lb/ft ³)	0.80 g/cm ³ (49.94 lb/ft ³)	4 %

*after 20,000 cycles of simulated wear using Labosport Roller Infill equipment

**Sum of percentage losses of retained weights on largest sieves which have migrated towards the smaller sieves.





COMMENTS

Along with the impact regarding the size distribution and the density, the roller infill testing gives one a chance to notice any important changes of colour or shape during the process. As displayed in the picture above, the color and shape of the performance infill tested do not change significantly after this durability testing.

COMPARISON WITH OTHER TYPE OF INFILL

Property	Test method	Infill		
		TTII Pro-Max 37 TPE	Generic TPE	Generic EPDM
Variation of Particle size	EN 933-1	8 %	74 %	7%
Variation of Bulk density	EN 1097-3	4%	3%	13%

REPORTED BY



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