



DTPI

Dumpster and Trailer Pad International, LLC
375 Main Street Hamden, CT 06514



Surface Pros, LLC
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1-888-822-1131
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08/07/2018

Results from an open-air Asphalt surface heat test using Land Soft™ semi-trailer pads;

This test was performed to verify claims made by Surface Pro LLC.

Claims made: "The Original Land Soft™ semi-trailer pad will maintain a Cooler semi-trailer foot print"

The test was performed on a seven-year-old residential Asphalt driveway without driveway sealer, the Asphalt is not of commercial grade. All test pieces are listed in order from left to right as seen in the photo below on page four.

The test began the morning of 08/07/2018. All test pieces were placed on the asphalt surface at 6:30 am. Air temperature was 72°F with 59% humidity. This test location has full sun-shine from the hours of 7:30 am to 4:45 pm this time of year. A new CEN-TECH Infrared Thermometer gun was used to measure all heated parts and asphalt surface temperatures.

First Test Results

Asphalt Surface Temperature at 12:00 noon (129.5°F)

No clouds, Full Sun Shine, 90°F - 59% Humidity

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Metal and Rubber Parts
Surface Temperature Readings

Temperature Difference Between
Asphalt (129.5°F)

1. Metal Sand Shoe ---- (125.6°F) ----- (3.9°F) Cooler
2. Metal Cushion ft---- (124.2°F) ----- (5.3°F) Cooler
3. Raw Rubber Part – (138.2°F) ----- (8.7°F) Warmer
4. Land Soft™ Sand Shoe Pad – (141.8°F) ----- (12.3°F) Warmer
5. Land Soft™ Joist Pad ----- (141.6°F) ----- (12.1°F) Warmer

Land Soft™ Rubber Foot Print Reading at 12:11 pm

Parts Foot Print Readings

Asphalt Temperature (129.5°F)

Foot Print Temperature Difference

Asphalt Temperature (129.5°F)

1. Metal Sand Shoe --- (116.8°F) ----- (12.7°F) - Cooler
2. Metal Cushion ft – -(116.9°F) ----- (12.6°F) - Cooler
3. Raw Rubber Part – (122.0°F) ----- (7.5°F) - Cooler
4. Land Soft™ Sand Shoe Pad – (99.5°F) --- (30.0°F) A 23% Cooler foot print!
5. Land Soft™ Joist Pad ----- (99.8°F) --- (29.7°F) A 23% Cooler foot print!

The Original Land Soft™ semi-trailer pads held a 23% cooler landing gear foot print on Asphalt with temperatures of 129.5°F.

Second Test Results

Asphalt Surface Temperature at 2:30 pm (144.8°F)

No clouds, Full Sun Shine, 90°F - 59% Humidity

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Metal and Rubber Parts
Surface Temperature Readings

Temperature Difference Between
Asphalt (144.8°F)

- 6. Metal Sand Shoe ---- (129.5°F) ----- (15.3°F) Cooler
- 7. Metal Cushion ft---- (129.3°F) ----- (15.5°F) Cooler
- 8. Raw Rubber Part – (143.6°F) ----- (1.2°F) Cooler
- 9. Land Soft™ Sand Shoe Pad – (142.7°F) ----- (2.1°F) Cooler
- 10. Land Soft™ Joist Pad ----- (142.6°F) ----- (2.2°F) Cooler

Land Soft™ Rubber Foot Print Reading at 2:38 pm

Parts Foot Print Readings
Asphalt Temperature (144.8°F)

Foot Print Temperature Difference
Asphalt Temperature (144.8°F)

- 6. Metal Sand Shoe --- (124.6°F) ----- (20.2°F) - Cooler
- 7. Metal Cushion ft – -(125.9°F) ----- (18.9°F) - Cooler
- 8. Raw Rubber Part – (131.0°F) ----- (13.8°F) - Cooler
- 9. Land Soft Sand Shoe Pad – (111.5°F) ----- (33.3°F) A 23% Cooler foot print!
- 10. Land Soft Joist Pad ----- (111.2°F) ----- (33.6°F) A 23% Cooler foot print!

The Original Land Soft semi-trailer pads held a 23% Cooler semi-trailer landing gear foot print on Asphalt with temperatures of 144.8°F.

Land Soft™ semi-trailer pad asphalt **Rubber Foot Print** temperature reading at 12:11 pm and 2:38 pm read 23% cooler for semi-trailer landing gear foot prints in temperatures of up to 144.8°F. When calculating temperatures for all metal and rubber part foot prints, the parts were not lifted from their placement. All parts tested were lifted from the front, leaving the back of each part resting on the asphalt surface. The Infrared thermometer laser beam was then pointed under each part's asphalt foot print. The Human tester did not create a shadow over each part. The tester was careful to keep his shadow up and away from each part as it was Thermo calculated for an accurate full-sun reading on each test.

This concludes our Land Soft™ semi-trailer pad testing for claims supporting

A “Cooler” semi-trailer foot print.



MASTICATED RUBBER TEST REPORT

1. **Scope:** This specification covers a combination of rubber and random oriented fiber mixed in proper proportions to maintain strength and stability, in sheet, molded or roll form and commonly referred to as masticated rubber.
2. **Application:** This material may be used as an insert material in the wheel well opening or as a barrier for road debris in the engine compartment areas. This definition includes exterior splash shields, mud flaps, air dam and radiator baffles. This material also can be used as an anti-squeak gasketing washer.
3. **Rubber content** - Shall be reclaimed , natural, or synthetic rubber or combination there of
4. **Fiber Content:**
 - a. Uniformly dispersed cotton, rayon, nylon or polyester fibers or combination there of.
 - b. Fiber length shall be 38mm, maximum
 - c. Shall be 40% by volume or 25% by wt.

Test Date: 6/29/2018

PROPERTY	ASTM	SPEC - METRIC	SPEC - (INCH)	Test results
Color:	N/A	Black		<u>Pass</u>
No Silicone:	N/A	Silicone Free		<u>Pass</u>
Flammability:	FMVSS 302	Shall conform to current FMVSS No.302, Flammability of Interior Materials		<u>25 100 max Pass</u>
Tensile Strength Mpa (PSI) <ul style="list-style-type: none"> with grain, min. across grain, min. 	D412 _ Die C	5.2	734	<u>6.4 Pass</u>
		3.0	437	<u>4.7 Pass</u>
Elongation (%) <ul style="list-style-type: none"> with grain, min. across grain, min. 	D412 _ Die C	15	15	<u>44.4 Pass</u>
		40	40	<u>99.4 Pass</u>
Hardness, Shore A	D2240	75-85	75-85	<u>85 Pass</u>
Tear Resistance kN/m (lbf/in) <ul style="list-style-type: none"> with grain, min. across grain, min. 	D624 _ Die B	26.25	150.0	<u>84.4 Pass</u>
		52.5	300.0	<u>53.1 Pass</u>
Ozone Resistance KN/m (lbf/in) <ul style="list-style-type: none"> tear across grain, min. tear with grain No cracks using 7X magnification 	Ozone per ASTM D 1149 Method B procedure B1 100 pphm, 50hrs @ 38°C Tear samples tested per ASTM D624 Die B	26.25	150.0	<u>81.8 Pass</u>
		26.25	150.0	<u>559.2 Pass</u>
		No Cracks	No Cracks	<u>No Cracks Pass</u>
Specific Gravity g/cm3	ASTM D297 sec16.3	0.9 – 1.30		<u>1.13 Pass</u>
Low Temp Brittleness 3 @ - 40° C min (-40° F)	ASTM D2137 Method C	Non brittle (no cracking) in both direction) using 7X magnification		<u>No Cracks Pass</u>

PROPERTY	ASTM	SPEC - METRIC	SPEC - (INCH)	Test results
Abrasion Resistance - Taber Abrasion _ 1000 Cycles with CS17 Wheel @ 1kg load Report Actual Results	ASTM D4060	≤ 120 mg		<u>0.0218 Pass</u>
Weather resistance – 6 weeks of Northern Indiana or Illinois exposure	ASTM D1171	100 % Quality Retention		<u>No Cracks Pass</u>
Heat Aging –	ASTM D573 _ 70 hrs @ 70°C			
Hardness, Shore A pts		+/- 10		<u>+1 -1 Pass</u>
Tensile, % max				
• with grain		+/-25		<u>+2 Pass</u>
• across grain		+/- 25		<u>+6 Pass</u>
Elongation, % max				
• with grain		+/-25		<u>-16.3 Pass</u>
• across grain		+/- 25		<u>-20 Pass</u>
Tear Resistance				
• with grain		+/-25		<u>+53.1</u>
• across grain		+/- 25		<u>+17.1 Pass</u>
Surface Condition		Non brittle (no cracking) in both direction)		<u>No Cracks Pass</u>

Test Status: ☒ Approved ☐ Rejected

By: D. DeMarcus

Title: Quality

Date: 7/9/2018

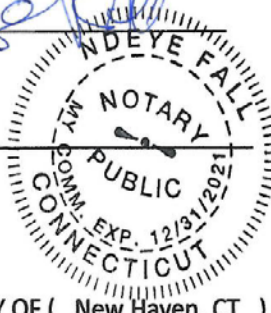
Company: Durable Products, Inc.

STATE OF CONNECTICUT) SS COUNTY OF (New Haven, CT)

Personally Appeared, Mrs. Fe Tullo, Member of Surface Pros, LLC, Signer and Sealer of the foregoing Acknowledgement that the facts presented in the Land Soft™ test results taken on 08/07/2018 are, accurate. Before me this 14th Day of August, 2018

[Signature]
NOTARY PUBLIC

My Commission Expires;

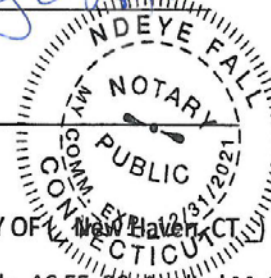


STATE OF CONNECTICUT) SS COUNTY OF (New Haven, CT)

Personally Appeared, Mr. Michael Tullo, Member of DTPI, LLC, Signer and Sealer of the foregoing Acknowledgement that the facts presented in the Land Soft™ test results taken on 08/07/2018 are, accurate. Before me this 14th Day of August, 2018

[Signature]
NOTARY PUBLIC

My Commission Expires;



STATE OF CONNECTICUT) SS COUNTY OF (New Haven, CT)

Personally Appeared, Mr. John Corda, AS EE, BS, Applied Mathematics. Mr. Corda also holds a Class one commercial Semi Truck and trailer license. Signer and Sealer of the foregoing Acknowledgement that the facts presented in the Land Soft™ test results taken on 08/07/2018 are accurate. Before me this 14th Day of August, 2018

[Signature]
NOTARY PUBLIC

My Commission Expires;

