

PuppyPlay

Wear Testing

MARCH 19, 2020

AstroTurf Corporation
Performance, Research and Development Lab



PuppyPlay

Wear Testing – JE108 Tester

February 24th, 2019

Project Information:

On February 24th, 2020 the AstroTurf Performance Testing Lab began wear testing on PuppyPlay. Specifically, a test was performed on the JE-108 Machine for long-term wear of the system. The system was composed of PuppyPlay turf. A total of 5,000 cycles were ran on the machine with macro, magnified and micro pictures taken initially, and after each 1000 cycles. The study was performed to test for quality standards and performance.

Supplier Address: Turf

STR – AstroTurf
421 Callahan Road SE
Dalton, Georgia 30721
706-272-4292

Point of Contact:

Zan Smith
zsmith@astroturf.com

Testing Completed By: Keaton Thomas
Performance Laboratory Technician

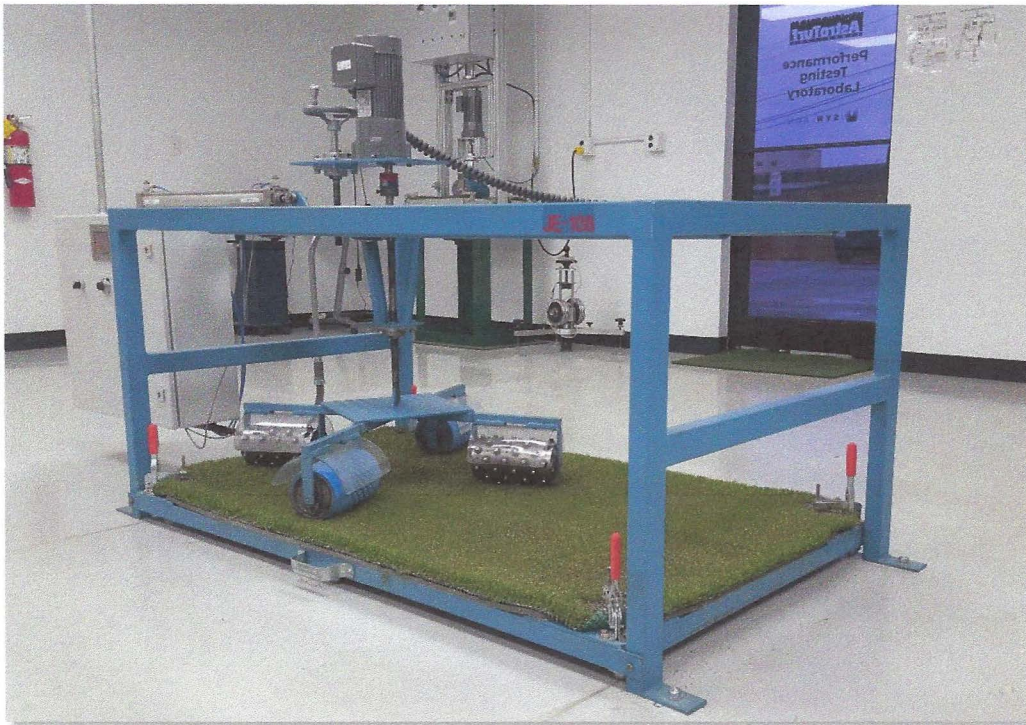
Testing Reported By: Chase Cloer
Performance Laboratory Technician



JE-108 Testing

Turf System: PuppyPlay **ASTROTURF**

The device selected for artificially wearing the turf sample is the standard JE-108 device developed by AstroTurf. The JE-108 device has been designed to impart wear on laboratory prepared samples to simulate wear in the field. The four cleated and rubber rollers on the carriage traverse an infilled sample in a cyclical fashion, imparting a large ovoid wear pattern onto the sample.



The material provided was subjected to artificial mechanical wear of a maximum duration of 5,000 cycles on the JE-108 wear tester. The sample was visually inspected and photographed, both initially, and after every 1000 cycles.

421 Callahan Rd. SE Dalton, GA 30721 Office: 706-272-4292 Email: RD@astroturf.com

Note: This report is confidential material belonging to AstroTurf, and may only be used by authorized agents and/or clients. AstroTurf accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known.

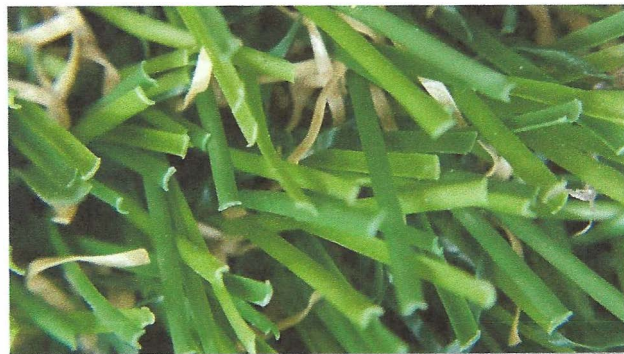
JE-108 Testing

The following test results and photographs reflect the conditions of the sample after every interval of 500 cycles of testing. Each set of photographs was evaluated using the guide below.

Fiber Wear	
None	1
Slight	2
Moderate	3
Excessive	4

Appearance Retention	
Excellent	1
Good	2
Fair	3
Poor	4

Turf System	PuppyPlay	Number of Cycles:	0
Fiber Wear	N/A	Appearance Retention	N/A



JE-108 Testing

Turf System	PuppyPlay	Number of Cycles:	1,000
Fiber Wear	1	Appearance Retention	2



421 Callahan Rd. SE Dalton, GA 30721 Office: 706-272-4292 Email: RD@astroturf.com

Note: This report is confidential material belonging to AstroTurf, and may only be used by authorized agents and/or clients. AstroTurf accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known.

JE-108 Testing

Turf System	PuppyPlay	Number of Cycles:	2,000
Fiber Wear	1	Appearance Retention	2



JE-108 Testing

Turf System	PuppyPlay	Number of Cycles:	3,000
Fiber Wear	2	Appearance Retention	2



421 Callahan Rd. SE Dalton, GA 30721 Office: 706-272-4292 Email: RD@astroturf.com

Note: This report is confidential material belonging to AstroTurf, and may only be used by authorized agents and/or clients. AstroTurf accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known.

JE-108 Testing

Turf System	PuppyPlay	Number of Cycles:	4,000
Fiber Wear	2	Appearance Retention	3



JE-108 Testing

Turf System	PuppyPlay	Number of Cycles:	5,000
Fiber Wear	3	Appearance Retention	3



421 Callahan Rd. SE Dalton, GA 30721 Office: 706-272-4292 Email: RD@astroturf.com

Note: This report is confidential material belonging to AstroTurf, and may only be used by authorized agents and/or clients. AstroTurf accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known.