



# TEST REPORT

DATE: 01/24/2005

TEST NUMBER: 093180

CLIENT	Sport Surface Specialties
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TEST METHOD CONDUCTED	ASTM F1292-99 Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	1.5"
COLOR	Brown
ROLL	-----
CONSTRUCTION	Rubber

### GENERAL PRINCIPLE

A test specimen is impacted at a specified velocity with a missile of given mass and geometry. A transducer mounted in the missile monitors the acceleration time history of the impact, which is recorded with the aid of an oscilloscope or other recording device. The 20 lb. missile with a 20 in<sup>2</sup> face was dropped at the appropriate height to ensure the appropriate missile speed as specified by the ASTM F355 method. The GMAX values, HID (head impact criteria) are recorded for three drops. The second and third drops are averaged. Testing was conducted at three temperatures as listed on the results. The maximum criteria for passing a drop height is 200 gmax or 1000 HIC.

### TEST RESULTS

Tested at 70° F	DROP 1	DROP 2	DROP 3	AVERAGE OF DROPS 2 AND 3
GMAX	159	163	166	165
HIC	901	917	951	934

Tested at 20° F	DROP 1	DROP 2	DROP 3	AVERAGE OF DROPS 2 AND 3
GMAX	180	179	188	184
HIC	1062	1048	950	999

Tested at 120° F	DROP 1	DROP 2	DROP 3	AVERAGE OF DROPS 2 AND 3
GMAX	201	215	202	209
HIC	1254	1300	1260	1280

*\*Submitted samples subjected to a drop height of 5'0"*

APPROVED BY:

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