COMPRESSION RESISTANCE (SIDE TO SIDE)

NTS-Chesapeake Testing

4603B Compass Point Road

Belcamp, MD 21017

Manufacturer:

Ganex Limited

Client: Ganex Limited

Job No.: PR154615 Test Date: 9/2/2023

Page No.: 1 of 2

Sample ID: Shadow Armor Sys-07

Sample

Large NA Date Received: 8/26/2023 Size: Model: Weight: 2.09 lbs. Mfg. Date: NA Via: **UPS** Color: Green Lot No.: Returned: **UPS**

Setup

Temperature: 70 °F System Load Cell: 145143 Test System: Instron 3366 11/5/2023 System Cal Due: Humidity: 41 % Load Cell Cal Due: 11/5/2023 Conditioning: **Ambient** Scale Serial. AE79801510 Tester: Johnathan Harris Scale Cal Due. 12/19/2023 Test Location: Mechanical Lab

Applicable Standards or Procedures

(1) AR/PD 10-02 Rev A with Change 6

(2) Customer Request

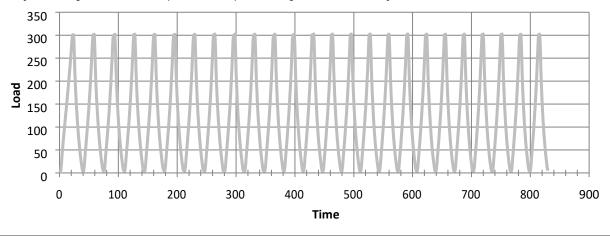
Requirement Number	Inspection Pass/Fail	Inspection Requirement
1	Pass	There shall be no dimensional change in excess of 0.200-inch immediately (within 5 minutes) following compressions.
2	Pass	There shall be no dimensional change in excess of 0.125-inch immediately (within 24 \pm 1 hour) following compressions.
3	Pass	The shell shall exhibit no visible delamination, ply separation, distortion after the compressions.

Results

Max	imum Load		Maximum Compression (in.)			Mode of Failure (If Applicable)		
	(lbf.)							
	302.11		0.466			1		
Pre Test	Date /	Post Test	Post Test Delta	Date /	Post Test	Post Test Delta		
Measurement	Time	(<5 minute)	(<5 minute)	Time	(24 ±1 hour)	(24 ±1 hour)		
(in.)		(in.)	(inches)		(in.)	(in.)		
1.412	9/2/2021 9:25 AM	1.484	0.072	9/3/202 9:30 AM	1.460	0.048		

Remarks:

Using a 2.50-inch diameter flat anvil, the test specimen was positioned so that the highest width dimension is aligned with the center of the top anvil. The sample was compressed at a rate of 12-inches per minute until a force of 300-pounds was reached followed by unloading the force to 5.0-pound and repeat testing for a total of 25 cycles



COMPRESSION RESISTANCE (TOP TO BOTTOM)

NTS-Chesapeake Testing

4603B Compass Point Road

Belcamp, MD 21017

Manufacturer: Ganex Limited

Client: Ganex Limited

Job No.: PR154615 Test Date: 9/1/2023

Page No.:

1 of 2 Sample ID: Shadow Armor Sys-07

Sample

Size: Large Model: NA Date Received: 8/26/2021 Mfg. Date: Weight: 2.09 lbs. NA DHL Color: Green Lot No.: NA Returned: **UPS**

Setup

Temperature: 69.3 °F System Load Cell: 145143 Test System: Instron 3366 System Cal Due: Humidity: 50 % Load Cell Cal Due: 11/5/2023 11/5/2023 Conditioning: Johnathan Harris **Ambient** AE79801510 Scale Serial. Tester: Test Location: Mechanical Lab Scale Cal Due. 12/1/2023

Applicable Standards or Procedures

- (1) AR/PD 10-02 Rev A with Change 6
- (2) Customer Request

Requirement Number	Inspection Pass/Fail	Inspection Requirement
1	Pass	There shall be no dimensional change in excess of 0.020-inch immediately (within 5 minutes) following compressions.
2	Pass	There shall be no dimensional change in excess of 0.020-inch immediately (within 24 \pm 1 hour) following compressions.
3	Pass	The shell shall exhibit no visible delamination, ply separation, distortion after the compressions.

Results

Maximum Load				Maximum Compression				Mode of Failure		
l	(lbf.)			(in.)			(If Applicable)			
ĺ	417.14			0.109				NA		
ĺ	Pre Test	Date /	Pos	st Test	Post Test Delta	Date /		Post Test	Post Test Delta	
	Measurement	Time	(<5 r	minute)	(<5 minute)	Time	(24 ±1 hour)	(24 ±1 hour)		
	(in.)		((in.)	(inches)			(in.)	(in.)	
	3.727	3.727 9/1/2021 8:30 AM		.737	0.010	9/2/202 8:35 AN		3.735	0.008	
ŀ										

Remarks:

Using a 2.50-inch diameter flat anvil, the test specimen was positioned so that the highest width dimension is aligned with the center of the top anvil. The sample was compressed at a rate of 12-inches per minute until a force of 400-pounds was reached followed by unloading the force to 5.0-pound and repeat testing for a total of 25 cycles.

