

## TEST REPORT



Testing. Advising. Assuring.

**Consultek Consulting Group**  
**460-D West Lambert Road**  
**Brea, California 92821**

Attn: Vishu H. Shah  
E-Mail: [vishu@consultekusa.com](mailto:vishu@consultekusa.com)  
Revision:

EXOVA REPORT NO. 291673  
DATE OF REPORT February 10, 2010  
SHIPPER NO. / QUOTE NO. E1001095  
PURCHASE ORDER NO. 1068  
PHONE 714 674-1981  
FAX 714 674-1919

Type of Test: **Compression Properties**  
Material Identification & Part No: Big-John Toilet Supports  
Lot / Batch / Serial No.: 7.5" position (2 ea) Regular Support  
Specification / Revision: per Quote  
Test Procedure: per Quote  
Specimen Conditions: 73°F / 50% RH  
Test Temperature: 73°F  
Test Performed By: Victor M. Romo

Date of Test 02-10-10

### TEST RESULTS:

Test Number	Position (Inch)	Load @ Initial Failure (lbs)	Ultimate Load (lbs)	Displacement @ Initial (Inch)	Mode of Failure
1	7.5	1,832	1,832	0.585	Shear at Bottom
2	7.5	1,809	1,810	0.480	Shear at Bottom
Average		1,821	---	---	---
Standard Deviation		16.5	---	---	---
Coefficient of Variation		0.907	---	---	---

Note: For Information Only.

Equipment:	Size / Type:	Control Number	Calibration Date Due:
Load Frame	30 K	1118	11-06-10
Load Cell	30 K	1388	11-06-10
Inspection Device	6" Caliper	2289	04-16-10
Test Speed	2.0 Inch/Minute	---	---

This is to certify that the above tests were performed in accordance with the terms of the purchase order requirements.  
Test equipment is calibrated with standards traceable to the NIST.

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Type of Test:	<b>Compression Properties</b>
Material Identification & Part No:	Big-John Toilet Supports
Lot / Batch / Serial No.:	14" position (2 ea) Regular Support
Specification / Revision:	per Quote
Test Procedure:	per Quote
Specimen Conditions:	73°F / 50% RH
Test Temperature:	73°F
Test Performed By:	Victor M. Romo
	Date of Test 02-10-10

**TEST RESULTS:**

Test Number	Position (Inch)	Load @ Initial Failure (lbs)	Ultimate Load ( lbs )	Displacement @ Initial (Inch)	Mode of Failure
1	14	1,791	1,796	0.694	Shear at Bottom
2	14	1,759	1,760	0.655	Shear at Bottom
Average		1,775	---	---	---
Standard Deviation		22.8	---	---	---
Coefficient of Variation		1.28	---	---	---

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Equipment:	Size / Type:	Control Number	Calibration Date Due:
Load Frame	30 K	1118	11-06-10
Load Cell	30 K	1388	11-06-10
Inspection Device	6" Caliper	2289	04-16-10
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Type of Test: **Compression Properties**  
 Material Identification & Part No: Big-John Toilet Supports  
 Lot / Batch / Serial No.: 5" position (2 ea) Short Swivel Support  
 Specification / Revision: per Quote  
 Test Procedure: per Quote  
 Specimen Conditions: 73°F / 50% RH  
 Test Temperature: 73°F  
 Test Performed By: Victor M. Romo

Date of Test 02-09-10

**TEST RESULTS:**

Test Number	Position (Inch)	Load @ Initial Failure (lbs)	Ultimate Load ( lbs )	Displacement @ Initial (Inch)	Mode of Failure
1	5	3,305	9,358	0.088	Stopped the Test
2	5	3,007	10,110	0.077	Stopped the Test
Average		3,156	9,734	---	---
Standard Deviation		210	532	---	---
Coefficient of Variation		6.68	5.46	---	---

Note: For Information Only.

Equipment:	Size / Type:	Control Number	Calibration Date Due:
Load Frame	30 K	1118	11-06-10
Load Cell	30 K	1388	11-06-10
Inspection Device	6" Caliper	2289	04-16-10
Test Speed	2.0 Inch/Minute	---	---

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Type of Test:	<b>Compression Properties</b>	
Material Identification & Part No.:	Big-John Toilet Supports	
Lot / Batch / Serial No.:	7.5" position (2 ea) Short Swivel Support	
Specification / Revision:	per Quote	
Test Procedure:	per Quote	
Specimen Conditions:	73°F / 50% RH	
Test Temperature:	73°F	
Test Performed By:	Victor M. Romo	Date of Test 02-09-10

**TEST RESULTS:**

Test Number	Position (Inch)	Load @ Initial Failure (lbs)	Ultimate Load ( lbs )	Displacement @ Initial (Inch)	Mode of Failure
1	7.5	2,686	2,687	0.207	Stopped the Test
2	7.5	2,766	3,173	0.208	Stopped the Test
Average		2,726	2,930	---	---
Standard Deviation		56.9	344	---	---
Coefficient of Variation		2.09	11.7	---	---

Note: For Information Only.

Equipment:	Size / Type:	Control Number	Calibration Date Due:
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Signed for and on behalf of Exova

  
 Tim Stetson  
 Mechanical Laboratory Supervisor

Date: 2/11/10

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