

RADCO TEST REPORT
 Test Report No. RAD-4826
 Project No. C1705A
 Lab No. TL-3315

Compressive Resistance Tests on Expanded Polystyrene Foam

Prepared for
DYPLAST PRODUCTS, LLC.
 12501 N.W. 38th Avenue
 Miami, FL 33054

At the request of the Dyplast Products, LLC., compressive resistance tests were conducted on nominal 1.5 PCF and 2.0 PCF Expanded Polystyrene products submitted from the Dyplast Products facility located in Miami, FL. Ten (10) 12" x 12" x 2" (305 mm x 305 mm x 50.8 mm) samples of EPS were received at RADCO on October 11, 2010.

Testing was conducted in accordance with ASTM D1621-04, "Standard Test Method for Compressive Properties of Rigid Cellular Plastics" and ASTM D6817-07 "Standard Specification for Rigid Cellular Polystyrene Geofoam". The samples were conditioned for a minimum of 40 hours at 73 °F and 50% relative humidity prior to testing. Five (5) 2" cube samples were tested from each set of samples. The individual testing machine generated data sheets are attached.

Average Compressive Resistance at Percent Deformations as listed in ASTM D6817	1% (psi)	5% (psi)	10% (psi)
Nominal 1.5 PCF samples	11.30	21.50	24.20
EPS22 Minimum Requirements per ASTM D6817	7.30	16.70	19.60
Nominal 2.0 PCF samples	13.00	26.50	29.70
EPS29 Minimum Requirements per ASTM D6817	10.90	24.70	29.00

Conclusion: The average compressive resistance values for the nominal 1.5 PCF and 2.0 PCF samples respectively meets the requirements for 1%, 5%, and 10% deformations for EPS22 and EPS29.

****END OF REPORT****

Prepared by:

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 10-15-10

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Issued: October 15, 2010

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Oct 14, 2010

Report No. 7850

ASTM D 1621-00 Compressive Properties (Geo 2")

Test Date 14-Oct-10 Testing Machine STM-20

Customer Name Dyplast Products FL

Operator Darwin Cano

Lab Number TL3315

Work Order C1705A

Board Type EPS22 2" cube

Type EPS22 Geofoam

Load Cell (TV106794) Capacity (-Lbs) 2000 Crosshead Speed (-Inches / min) or 0.2
Preload Value (-Lbs) 0.5 Extension or Position Measured by XHD (XHD2)

Test No	Spec ID	Plan Dim (in)	Height (in)	Area (in ²)	Yield (psi)	Peak (psi)	Stress @ 1% (psi)	Comp. Mod @ 1% (psi)	Stress @ 5% (psi)	Mod @ 5% (psi)	Stress @ 10% (psi)	Mod @ 10% (psi)
31978	1-1	2.01	2.01	4.04	25.7	25.7	10.8	1,063.1	20.8	408.5	23.5	234.8
31979	2-1	2.02	2.01	4.09	26.0	26.0	11.1	1,101.7	21.2	419.8	23.9	237.7
31980	3-2	2.03	2.01	4.13	26.4	26.4	11.4	1,134.8	21.7	427.8	24.3	241.5
31981	4-2	2.02	2.01	4.06	27.1	27.1	12.0	1,181.4	22.4	442.7	25.0	248.9
31982	5-3	2.03	2.00	4.11	26.6	26.6	11.3	1,133.4	21.7	430.4	24.4	243.3
	Mean	2.02	2.01	4.09	26.4	26.4	11.3	1,122.9	21.5	425.9	24.2	241.2
	Median											
	Std Dev	0.01	0.00	0.03	0.5	0.5	0.5	43.9	0.6	12.7	0.6	5.4
	Maximum	2.03	2.01	4.13	27.1	27.1	12.0	1,181.4	22.4	442.7	25.0	248.9
	Minimum	2.01	2.00	4.04	25.7	25.7	10.8	1,063.1	20.8	408.5	23.5	234.8
	Range	0.02	0.00	0.08	1.4	1.4	1.2	118.3	1.6	34.1	1.6	14.1
	Specification (min)											
	(max)											

Pass

By: *Darwin Cano* Date: 10/14/10



Oct 14, 2010

ASTM D 1621-00 Compressive Properties (Geo 2")

Report No. 7851

Test Date 14-Oct-10 Testing Machine STM-20

Customer Name Dyplast Products FL.
 Operator Darwin Cano
 Lab Number TL3315

Work Order C1705A

Board Type EPS29 2" cube

Type EPS29 Geofoam

Load Cell (TV106794) Capacity (-Lbs) 2000 Crosshead Speed (-Inches / min) or 0.2
 Preload Value (-Lbs) 0.5 Extension or Position Measured by XHD (XHD2)

Test No	Spec ID	Plan Dim (in)	Height (in)	Area (in ²)	Yield (psi)	Peak (psi)	Stress @ 1% (psi)	Comp. Mod @ 1% (psi)	Stress @ 5% (psi)	Mod @ 5% (psi)	Stress @ 10% (psi)	Mod @ 10% (psi)
31983	1-1	2.03	2.00	4.12	32.6	32.6	13.5	1,348.2	26.8	531.1	30.1	299.5
31984	2-1	2.03	2.00	4.12	32.3	32.3	12.9	1,275.3	26.4	519.4	29.8	294.8
31985	3-2	2.01	2.01	4.06	31.7	31.7	13.2	1,306.4	26.3	524.2	29.4	293.3
31986	4-2	2.01	2.02	4.04	32.2	32.2	13.1	1,297.9	26.7	533.1	29.9	296.8
31989	5-4	2.01	2.02	4.05	31.4	31.4	12.4	1,220.7	26.1	515.3	29.1	289.0
Mean		2.02	2.01	4.08	32.0	32.0	13.0	1,289.7	26.5	524.6	29.7	295.1
Median												
Std Dev		0.01	0.01	0.04	0.5	0.5	0.4	46.7	0.3	7.6	0.4	4.3
Maximum		2.03	2.02	4.12	32.6	32.6	13.5	1,348.2	26.8	533.1	30.1	299.5
Minimum		2.01	2.00	4.04	31.4	31.4	12.4	1,220.7	26.1	515.3	29.1	289.0
Range		0.02	0.01	0.08	1.2	1.2	1.1	127.5	0.7	17.9	1.0	10.5

Pass

Date: 10/14/10

By: *Darwin Cano*