

TECHNICAL INFORMATION

Cellu-Cushion® Polyethylene Foams Typical Physical Properties

Physical Properties*	Test Method	1.7 pcf					2.2 pcf
		1.2 pcf	1/8"	1/4"	3/8"	1/2"	1/2"
Nominal Thickness		1/2"	1/8"	1/4"	3/8"	1/2"	1/2"
Compressive Strength - vertical direction (psi)	ASTM D3575-00 Suffix D @ 25% / 50%	4.8 12.8	3.1 10.9	3.8 11.6	4.3 12.2	5.2 13.4	6.5 15.0
Compression Set (%)	ASTM D3575-00 Suffix B	< 20	< 30	< 30	< 25	< 20	< 15
Tensile Strength (psi)	ASTM D3575-00 Suffix T (md / cmd)	39 23	85 33	58 30	50 27	44 26	48 32
Elongation (%)	ASTM D3575-00 Suffix T (md / cmd)	74 62	70 47	86 60	70 68	79 65	80 74
Tear Resistance (lb/in)	ASTM D3575-00 Suffix G (md/ cmd)	7 13	12 19	11 17	11 16	10 15	14 18
Density Range (lb/ft ³)	ASTM D3575-00	1.1 – 1.4	1.5 – 1.9	1.5 – 1.9	1.5 – 1.9	1.5 – 1.9	2.0 – 2.4
Water Absorption (lb/ft ²)	ASTM D3575-00 Suffix L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Thermal Stability	ASTM D3575-00 Suffix S	< 5%	< 5%	< 5%	< 5%	< 5%	< 5%
Contact Corrosivity (Alum. Plate)	Method 3005 FED STD. 101	None	None	None	None	None	None
Static Decay (anti-static grade)	EIA STD. 541 Appendix F	< 2 sec	< 2 sec	< 2 sec	< 2 sec	< 2 sec	< 2 sec
Surface Resistivity (anti-static grade)	EIA STD. 541 Section 4.3	1.0 x 10 ⁹ – 1.0 x 10 ¹²	1.0 x 10 ⁹ – 1.0 x 10 ¹²	1.0 x 10 ⁹ – 1.0 x 10 ¹²	1.0 x 10 ⁹ – 1.0 x 10 ¹²	1.0 x 10 ⁹ – 1.0 x 10 ¹²	1.0 x 10 ⁹ – 1.0 x 10 ¹²
Thermal Conductivity k-value (BTU-IN / HR-FT ² -°F)	ASTM C518-91	0.35 – 0.42	0.35 – 0.42	0.35 – 0.42	0.35 – 0.42	0.35 – 0.42	0.35 – 0.42
Thermal Resistance R-value (HR-FT ² -°F / BTU)	ASTM C518-91	1.30 – 1.60	1.30 – 1.60	1.30 – 1.60	1.30 – 1.60	1.30 – 1.60	1.30 – 1.60

*The data presented for these products are for unfabricated Sealed Air Corporation brand foam products. While values shown are typical for these products they should not be construed as specification limits.



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