



Ivex Protective Packaging
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Technical Information

3/3/2014 Revised
 8/1/2015 Revised

Polyethylene Foams ProLam® and ProPlank®

Typical Physical Properties*

Nominal density	Test Method	ProLam®			ProPlank®			
		1.2 PCF	1.7 PCF	2.2 PCF	2.2 PCF	4 PCF	6 PCF	9 PCF
Compressive Strength	ASTM D3575	4.5	6.0	8.5	9.6	16.5	28	55.5
Vertical Direction (psi)	Suffix D @ 25% / 50%	13.0	15.0	17.0	18.0	27.5	42.5	85
Compression Set (%)	ASTM D3575 Suffix B	20.9	10.6	15.2	12.5	10.5	10	9
Compression Creep	ASTM D3575 Suffix BB 168 hr.	< 5% @1.0 psi	< 5% @1.25 psi	< 5% @2.0 psi	<5% @2PSI	< 5% @3.0 psi	< 5% @5.0 psi	<5% @10PSI
Tensile Strength (psi)	ASTM D3575	32.0	33.0	38.0	40.0	85	120	180
(@ 1/2" Thickness)	Suffix T MD / CMD	18.0	22.0	28.0	33.0	77	102	135
Tear Resistance (lb/in)	ASTM D3575	9	10	12	12	32	45	60
(@ 1/2" Thickness)	Suffix G MD / CMD	5	7	10	10	29	42	48
Density Range (lb/ft ³)	ASTM D3575	1.2 - 1.4	1.5 - 1.9	2.00-2.40	2.00-2.40	4.2-4.8	6.2- 6.5	9.3-9.7
Cell Size Cell per Linear in	ASTM D3575	13-16	14-18	16-20	18-22	20-26	22-29	25-29
Water Absorption (lb/ft ²)	ASTM D3575 Suffix L	< 0,1	< 0,1	< 0,1	<.01	< 0,1	< 0,1	<0,1
Thermal Stability MD / CMD	ASTM D3575 Suffix S	<5%**	<5%**	<5%**	<5%**	<5%**	<5%**	<5%**
Contact Corrosivity (Alum Plate)	Method 3005 FED STD 101	None	None	None	None	None	None	None
Static Decay (Anti-Static Grade)	EIA STD. 541 Appendix F	< 2 sec.						
Surface Resistivity (Anti-Static Grade)	EIA STD. 541 Section 4.3	1,0 x 10 ⁹ - 1,0 x 10 ¹²						
Thermal Conductivity K-Value (BTU-IN/HR-FT ² -°F)	ASTM C518-91	0.33 - 0.42						
Thermal Resistance R-Value (HR-FT ² -°F/BTU)	ASTM C518-91	2.34 - 2.90						
Recycle Grade		80-100%			Content			
Flame Retardent Grade Meets FR Requirements in UL94 HF 1 & 2 IAW ASTM E 162-09 Surface Flammability Inde <25 IAW ASTM E 662 Specific Optical Density of Smoke with Radiant Heat is 56 DM Time at 13 Min. IAW ASTM E 662 Specific Optical Density of Smoke with Radiant Heat and Flame is 42 DM time at 9.5 Min.								

* The data presented for these products are for unconverted Ivex Protective Packaging polyethylene foam products.
 While values shown are typical of these products, they should not be construed as specification limits.