



ASTM C-578 Standard Specifications for Preformed, Cellular Polystyrene Thermal Insulation

Versa-Tech, Inc. reference type	LDV	1.0#	1.25#	XPS	XPS	1.5#	XPS	2.0#	XPS	XPS	XPS
PROPERTY	TYPE XI	TYPE I	TYPE VIII	TYPE XII	TYPE X	TYPE II	TYPE IV	TYPE IX	TYPE VI	TYPE VII	TYPE V
Density, Min. lb/ft cubed	0.7	0.9	1.15	1.2	1.3	1.35	1.6	1.8	1.8	2.2	3
Thermal resistance of 1.00 - in. thickness, min, * Mean Temperature											
25 deg. F	3.45	4.2	4.4	5.2	5.6	4.6	5.6	4.8	5.6	5.6	5.6
40 deg. F	3.3	4	4.2	5	5.4	4.4	5.4	4.6	5.4	5.4	5.4
75 deg. F	3.1	3.6	3.8	4.6	5	4	5	4.2	5	5	5
110 deg. F	2.9	3.25	3.45	4.3	4.65	3.65	4.65	3.85	4.65	4.65	4.65
Compressive resistance at yield or 10% deformation, whichever occurs first (with skins intact) min, psi	5	10	13	15	15	15	25	25	40	60	100
Flexural strength, min, psi	10	25	30	40	40	40	50	50	60	75	100
Water vapor permeance of 1.00-in. thickness, ma, perm	5	5	3.5	1.1	1.1	3.5	1.1	2	1.1	1.1	1.1
Water absorption by total immersion, max, volume %	4.0	4.0	3.0	.3	.3	3.0	.3	2.0	.3	.3	0.3
Dimensional stability (change in dimensions), max, %	2.0	2.0	2.0	2.0	2	2.0	2.0	2.0	2.0	2.0	2
Oxygen index, min, volume %	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0

Grayed areas represent non-EPS products.

The Expandable Polystyrene products manufactured by Versa-Tech, Inc. for construction applications meet all applicable standards including: ASTM C578 and E-84 (UL-723).

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