

TECHNICAL DATA

Property (Units)	Thermal Resistance ^{1,2} R-Value per inch @ 75°F. (mean temp)	Compressive Strength (lb/ft ²) min. ³	Flexural Strength (lb/ft ²) min.	Water Absorption (% by volume) max.	Water Vapor Permeance ⁴ (perm)	Dimensional Stability (% linear change) max.	Coefficient of Linear Thermal Expansion (x10 ⁻⁶ /in./in./°F)	Complies with ASTM C578, Type ⁶	Maximum Use Temperature (°F)	Flame Spread ⁶	Smoke Development	Width (inches)	Length (inches)	Thickness (inches)
ASTM METHOD	C518	D1621	C203	C272	E96	D2126				E84	E84			
CAVITYMATE	5.0	15	40	0.1	1.1	2.0	3.5	X	165	5	165	16	96	1, 1½, 2
CAVITYMATE SC	5.0	16	40	0.1	1.1	2.0	3.5	X	165	5	165	48	96	1, 1½, 2
CAVITYMATE Plus	5.0	25	50	0.1	1.1	2.0	3.5	IV	165	5	165	16	96	1½, 2
CAVITYMATE Ultra	5.6	25	50	0.1	1.1	2.0	3.5	IV	165	10	160	16	96	1¾, 2½
DECKMATE	5.0	18	40	0.1	<1.0	2.0	3.5	X	165	5	165	24	96	2, 3
DECKMATE Plus	5.0	25	50	0.1	<1.0	2.0	3.5	IV	165	5	165	48	96	1, 1½, 2
FREEZERMATE	5.0	30	50	0.1	0.8	2.0	3.5	IV	165	5	165	24	96	2, 3
PERIMATE	7.0 ⁽⁹⁾	30	50	1.0	1.1	2.0	3.5	IV	165	5	165	24	96	1½, 2½
PLAZAMATE	5.0	60	75	0.1	0.8	2.0	3.5	VII	165	5	165	24	96	1½, 2, 3
RECOVERMATE CR	1.4 ⁽¹³⁾	15	-	2.0 ⁽¹⁰⁾	1.8	<0.5	3.5	-	200	10	200	48	600	¾
ROOFMATE	5.0	40	60	0.1	<1.0	2.0	3.5	VI	165	5	165	24	96	1, 1½, 2, 2½, 3, 3½, 4
Ribbed ROOFMATE	5.0 ⁽¹¹⁾	600 ⁽¹²⁾	-	0.1	0.8	2.0	3.5	VI	165	5	165	24	96	2
Z-MATE	5.0	15	40	0.1	1.1	2.0	3.5	X	165	5	165	24	96	1½, 2
DOW Protection Board III	1.0 ⁽⁷⁾	8	-	0.2	0.8 ⁽⁷⁾	-	-	-	165	10	200	48	600	¼
GRAYBOARD* Scoreboard	5.0	15	40	0.2	1.1	2.0	3.5	X	165	5	165	48	96	1, 1½, 2
GRAYBOARD Square Edge	5.0	15	40	0.2	1.1	2.0	3.5	X	165	5	165	24	96	1, 1½, 2
Highload 40	5.0	40	60	0.1	<1.0	2.0	3.5	VI	165	15	165	24	96	2, 3
Highload 60	5.0	60	75	0.1	0.8	2.0	3.5	VII	165	15	165	24	96	2
Highload 100	5.0	100	100	0.1	0.8	2.0	3.5	V	165	15	165	24	96	2
Scoreboard ⁽⁸⁾	5.0	25	50	0.1	1.1	2.0	3.5	IV	165	5	165	48	96	¾, 1, 1½, 2, 2½, 3
Square Edge ⁽⁹⁾	5.0	25	50	0.1	1.1	2.0	3.5	IV	165	5	165	24	96	¾, 1, 1½, 2, 2½, 3, 4
Tongue & Groove	5.0	25	50	0.1	1.1	2.0	3.5	IV	165	5	165	24	96	¾, 1, 1½, 2

NOTES:

- Values are consistent with the criteria of ASTM C578 and the requirements of the FTC R-value rule (16 CFR Part 460). The higher the R-value, the greater the insulating power. Ask your seller for the fact sheet on R-value. A 15-year limited thermal warranty is available.
- R means resistance to heat flow. R-values are expressed in °F-ft²/h/BTU.
- Vertical compressive strength is measured at 10% deformation (5% for STYROFOAM PLAZAMATE brand insulation and for STYROFOAM brand Highload 40, 60 and 100 insulation products) or at yield, whichever occurs first. Since STYROFOAM brand insulation products are visco-elastic materials, adequate design safety factors should be used to prevent long-term creep. For static

- loads, 3-1 is suggested. For dynamic loads, 5-1 is suggested.
- Water vapor permeance varies with product type and thickness. Values are based on the desiccant method, and they apply to insulation 1" in thickness. Thicker products have lower permeance.
- Former Federal Specification HH-1524C was cancelled in 1985 and replaced by ASTM Specification C578.
- This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- For ¼" thickness; perm-inches.
- For 1½" thickness.
- If using these products for Z-furring applications,

- please contact your local Dow sales representative for exact product sizes.
- Water absorption per ASTM D2842.
- R-value is 10.0 for nominal 2" thickness and 15.0 for nominal 3" thickness.
- Recommended load (psf) including 5:1 design factor.
- For ¾" thickness.
- Note: Not all products are available in all parts of the country. Other product sizes are available on a made-to-order basis. Please contact your Dow sales representative with questions.

Illustrations are not intended to replace the need for design by appropriate professionals such as architects or engineers.

Dow has manufactured STYROFOAM brand insulation for use in construction and specialty applications for over 50 years. Its dense closed-cell structure gives STYROFOAM brand insulation superior moisture resistance, long-term thermal performance and compressive strength. STYROFOAM brand insulation is CFC-free and reusable.

Combustible: Protect from flame and other high heat sources. For more information, consult MSDS and/or call Dow (1-800-441-4369). In an emergency, call 1-989-636-4400. Local building codes may require a protective or thermal barrier. Contact your local building inspector for more information.

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