



EPS Flat Sheets

Plain, Flat Rigid EPS Foam Insulation Boards



APPLICATIONS

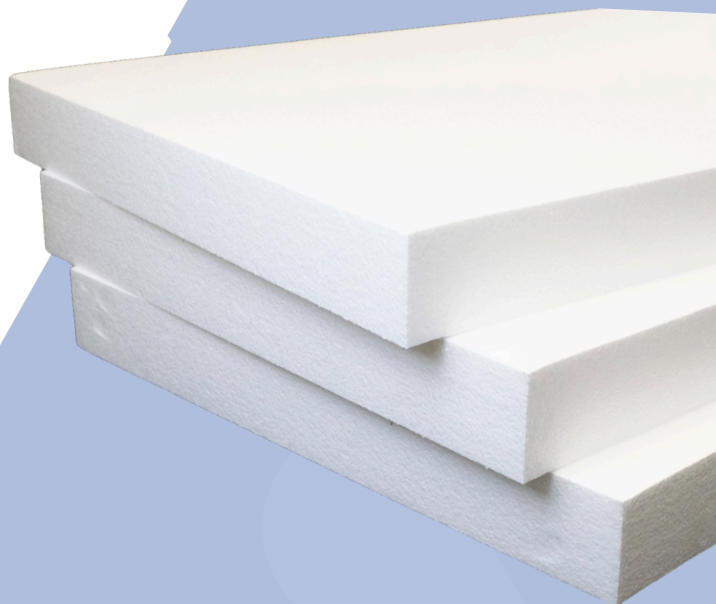
- **Sheathing** - Installed around exterior or within interior walls
- **Roofing** - Re-cover jobs, May also serve as a leveling board
- **Generally used with an appropriate fire retarding cover board or overlay**

WHY EPS FLAT SHEETS?

- Reduces energy costs by adding R-value to building walls and roofs
- Added R-value = Excellent thermal savings per dollar cost
- EPS R-value does not degrade over decades of use (unlike Polyiso or XPS)
- Dimensional stability
- Moisture resistant due to EPS closed-cell structure
- EPS contains no formaldehyde or ozone-depleting CFCs or HCFCs

Sizes

- Available in a wide variety of board sizes
- Density: 1.0, 1.25, 1.5, 2.0, 2.5, & 3.0 lb/ft³
- Thicknesses of 1/2' - 6"



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CODE APPROVALS

- **ASTM C578**, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation
- Underwriters Laboratory Listed, **UL ER7260-01**, for interior and exterior walls
- UL classified **TGFU.R7260** for fully adhered ballasted, and mechanically attached roofing assemblies

EXPANDED POLYSTYRENE TYPICAL PHYSICAL PROPERTIES

Cellofoam® EPS Typical 1 Physical Properties			Units	ASTM Test	Type I	ASTM C578 Type		
					Type VIII	Type II	Type IX	
Density (Nominal)			lb/f³	C303 or D1622	1.0	1.25	1.5	2.0
Density (Minimum)			lb/f³		0.90	1.15	1.35	1.80
Thermal Resistance								
R-Value²	at 25 °F	(°F ft² hr) / Btu per inch	C177 or C518	4.35	4.54	4.76	5.00	
	at 40 °F			4.17	4.25	4.55	4.76	
	at 75 °F			3.85	3.92	4.17	4.35	
Compressive Strength at 10% deformation			psi	D1621	10 - 14	13 - 18	15 - 21	25 - 33
Flexural Strength			psi	C203	25 - 30	30 - 38	40 - 50	50 - 75
Water Vapor Permeance 1.0 in. thickness			perm.	E96	2.0 - 3.0	1.5 - 2.8	0.9 - 2.5	0.6 - 1.5
Water Absorption by total immersion			volume %	C272 or C1763	< 1.5	< 1.5	< 1.5	< 1.5
Capillarity			--	--	none	none	none	none
Dimensional Stability maximum			change %	D2126	< 0.5	< 0.5	< 0.5	< 0.5
Coefficient of Thermal Expansion			in/(in °F)	D696	0.000035	0.000035	0.000035	0.000035
Fungus & Bacterial Resistance			-	C1338	Will not support bacterial or fungus growth; no food value			
1 Typical physical properties are based on data provided by resin manufacturer, independent test agencies, and Cellofoam North America Inc. All data is for plain, unlaminated EPS foam.								
2 R means resistance to heat flow. The higher the R value, the greater the insulating power.								

*Please consult local building codes and membrane manufacturers for system requirements.

Warning: This product is combustible and if exposed to a fire of sufficient heat and intensity may burn rapidly. It should not be left exposed or inadequately protected. Protect Cellofoam® expanded polystyrene from exposure to hydrocarbons, coal tar pitch, solvents, and solvent fumes. Consult specific instructions and applicable building codes for use of this product.

Cellofoam® North America Inc. is an expanded polystyrene foam manufacturer and not an engineering consulting firm. Thus, it is beyond our scope to provide design services on the specific use for our products. Users of our EIFS EPS products should consult with appropriate engineering and code experts to determine the exact type and specifications of EPS required for their project. The sale of these products shall be subject to Terms and Conditions of Sale, including those limiting warranties as set forth in Cellofoam®'s invoices. No agent, employee, or representative of Cellofoam® North America Inc. or its subsidiary or affiliated companies is authorized to modify this disclaimer.