



# CREATIVE FOAM

## EXPANDED POLYSTYRENE

**Creative Foam Expanded Polystyrene (EPS) is a closed-cell, lightweight rigid foam material used in a numerous applications, including packaging, insulating sheathing, geofoam, etc. We custom manufacture EPS in a variety of thicknesses, lengths, widths, and shapes and meet or exceed the testing and performance criteria of ASTM C578, Standard Specification for Rigid Cellular Polystyrene Thermal Insulation.**

PHYSICAL PROPERTIES OF EXPANDED POLYSTYRENE			ASTM C578						
Property			Type XI	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV
<b>Minimum Density</b>		lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	0.72 (12)	.90 (15)	1.15 (18)	1.35 (22)	1.8 (29)	2.40 (38)	3.00 (48)
<b>Thermal Resistance</b> R-Value per inch	ASTM C518	25°F 40°F 75°F	3.50 3.30 3.10	4.35 4.17 3.85	4.55 4.25 3.92	4.76 4.55 4.17	5.00 4.76 4.35	5.05 4.85 4.50	5.10 5.05 4.60
<b>Compressive Strength</b> @ 10% deformation, min.	ASTM D1621	psi k(Pa)	5.0 (35)	10.0 (69)	13.0 (90)	15.0 (104)	25.0 (173)	40.0 (276)	60.0 (414)
<b>Flexural Strength, min.</b>	ASTM C203	psi k(Pa)	10.0 (69)	25.0 (173)	30.0 (208)	35.0 (242)	50.0 (345)	60.0 (414)	75.0 (517)
<b>Water Vapor Permeance</b> (max. perm., 1")	ASTM E96		5.0	5.0	3.5	3.5	2.5	2.5	2.5
<b>Water Absorption</b> (max % vol.)	ASTM C2972		4.0	4.0	3.0	3.0	2.0	2.0	2.0
<b>Cabillarity</b>			none	none	none	none	none	none	none
<b>Flame Spread</b>	ASTM E84		< 25	< 25	< 25	< 25	< 25	< 25	< 25
<b>Smoke Developed</b>	ASTM E84		< 450	< 450	< 450	< 450	< 450	< 450	< 450
<b>Max. Service Temperature</b>	Long Term Intermittent	°F °F	167 180	167 180	167 180	167 180	167 180	167 180	167 180



1301 E. 8th Street North Little Rock, AR 72114  
501.273.3626