

1.0# Expanded Polystyrene (EPS)

Expanded Polystyrene (EPS) is a lightweight closed cell foam, popular for projects requiring a closed cell material that offers moisture and vapor resistance that will not attract fungi or mildew

TECHNICAL DATA SHEET | (EFFECTIVE 24FEB25)

Expanded Polystyrene (EPS)			
PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Cell Structure	--	--	Closed
Density	ASTM C 578-92	lb/ft ³	1.0
Thermal Conductivity	ASTM C 578-92	BTU·in/hr·sq·ft·F	
@ 25°F			0.23
@ 40°F			0.24
@ 75°F			0.26
Thermal Resistance	ASTM C 578-92	R-Value at 1" Thick	
@ 25°F			4.35
@ 40°F			4.17
@ 75°F			3.85
Compressive 10% Deformation	ASTM C 578-92	psi	12
Flexural	ASTM C 578-92	psi	27
Tensile	ASTM C 578-92	psi	18
Shear	ASTM C 578-92	psi	20
Shear Modulus	ASTM C 578-92	psi	300
Modulus of Elasticity	ASTM C 578-92	psi	200
WVT	ASTM C 578-92	perm. in	3.5
Absorption	ASTM C 578-92	% vol max	4.0
Capillarity	ASTM C 578-92	--	None
Coefficient of Thermal Expansion	ASTM C 578-92	in/in·°F	0.000035
Maximum Service Temperature	ASTM C 578-92	°F	
Long Term			167
Short Term			180
Oxygen Index	ASTM C 578-92	%	24.0
Contains Fire Retardant Additives	ASTM C 578-92	--	Yes