

2.0# 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	2.0
Thermal Conductivity	ASTM C 578-92	BTU·in/hr·sq·ft·F	
@ 25°F			0.20
@ 40°F			0.21
@ 75°F			0.23
Thermal Resistance	ASTM C 578-92	R-Value at 1" Thick	
@ 25°F			5.00
@ 40°F			4.76
@ 75°F			4.35
Compressive 10% Deformation	ASTM C 578-92	psi	29
Flexural	ASTM C 578-92	psi	63
Tensile	ASTM C 578-92	psi	26
Shear	ASTM C 578-92	psi	36
Shear Modulus	ASTM C 578-92	psi	620
Modulus of Elasticity	ASTM C 578-92	psi	480
WVT	ASTM C 578-92	perm. in	1.3
Absorption	ASTM C 578-92	% vol max	2.0
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