



Typical Physical Properties of EPS Specification Reference ASTM C 578-05

Property	Units	ASTM Test	Type XI	Type I	Type VIII	Type II	Type IX
Density Range	PCF	D303/ D1622	.75 .75-.89	.90 .90/1.14	1.15 1.15/1.34	1.35 1.35/1.79	1.80 1.80-2.20
Thermal Conductivity (k)	btu/hr (ft ²)(F/in)	C177/ C518	25°F .29 40°F .30	.23 .24	.22 .23	.21 .22	.22 .21
Thermal Resistance (R)	25°F 40°F 75°F	1" Thick	3.5 3.3 3.2	4.4 4.2 3.9	4.5 4.3 4.0	4.8 4.6 4.0	5.0 4.8 4.2
Compressive	psi	D1621	6-10	10-14	13-18	15-21	25-33
Flexural	psi	C203	30-38	25-30	30-38	40-50	50-75
WVT	perm	E96	2.0-5.0	2.0-5.0	2.0-3.0	2.0-3.0	2.0
Absorption	%	C272	<4%	<4%	<3%	<3%	<2%
Capillarity			none	none	none	none	none
COEFF Expansion	In/(in)/(F)	D696	.000035	.000035	.000035	.000035	.000035
Svc Temp LT Intermittent	°F		167 180	167 180	167 180	167 180	167 180
Oxygen Index	%	D2863	24	24	24	24	24

The information presented in this table is offered in good faith and believed to be accurate, all statements and suggestions are made without warranty, expressed or implied, including any implied warranties of merchantability of fitness for any purpose.

Caution

Polar Industries' Polystyrene Foamed Plastic Insulation

Like many construction materials this product is combustible. It should not be exposed to flame or other ignition sources. It is the buyer's responsibility to see that the product is installed in accordance with applicable building codes. Local codes may require a protective or thermal barrier.

Meets IBC/IRC requirements for foam plastic insulation.

Refer to section 2603 of IBC for details.

See product listings: NER-479, ESR-1798, ESR-1640, ESR-1095 and ESR-1634

Meets ASTM C-578 and HUD Specifications