

Typical Physical Properties of R-Tech

Property	Type I	Test Method
Nominal Density (pcf)	1.0	ASTM C303
C-Value (Conductance) BTU/(hr•ft ² •°F) (per inch)	@ 25° F .23 @ 40° F .24 @ 75° F .26	ASTM C518 or ASTM C177
R-Value (Thermal Resistance) (hr•ft ² •°F)/BTU (per inch)	@ 25° F 4.35 @ 40° F 4.17 @ 75° F 3.85	ASTM C518 or ASTM C177
Compressive Strength (psi, 10% deformation)	13	ASTM D1621
Flexural Strength (psi)	33	ASTM C203
Dimensional Stability (maximum %)	< 2%	ASTM D2126
Water Vapor Transmission (perms)	< 1.0	ASTM E96
Absorption (% vol.)	< 1.0	ASTM C272
Capillarity	none	—
Flame Spread	< 20	ASTM E84
Smoke Developed	150 - 300	ASTM E84

*Properties are based on data provided by resin manufacturers, independent test agencies and Insulfoam.

Effective R-Values ^a (metallic-reflective facer and dead air space)

R-Tech Thickness	Design Temp.	Effective R-Value (R-Tech MR + Air Space) ^b
0.50"	25°	5.00
	40°	4.90
	75°	4.80
0.75"	25°	6.10
	40°	5.90
	75°	5.70
1.00"	25°	7.20
	40°	7.00
	75°	6.70
1.25"	25°	8.30
	40°	8.00
	75°	7.60
1.50"	25°	9.40
	40°	9.10
	75°	8.60
1.75"	25°	10.50
	40°	10.10
	75°	9.60
2.00"	25°	11.60
	40°	11.10
	75°	10.50
2.25"	25°	12.70
	40°	12.20
	75°	11.50
2.50"	25°	13.80
	40°	13.20
	75°	12.40

^a Effective R-Values determined using InsulFoam I. Higher density InsulFoam products will provide higher R-Values. The type of construction application and the depth of the air space will also impact the actual Effective R-Value.

^b Requires 0.75"- 3.50" dead air space and the R-Tech MR facer towards the dead air space.