



FOAMULAR® Extruded Polystyrene (XPS) Insulation

SI and I-P Units for Selected Properties

Technical Bulletin

This bulletin provides thermal conductivity, thermal resistance, density and compressive strength for FOAMULAR® 150, 250, 400, 600 and 1000 insulation in thicknesses of 2", 3" and 4". SI units are provided in the tables, followed by I-P units in parenthesis.

FOAMULAR® 150 Insulation

Thickness, mm	Thermal Conductivity, W/mK, max.	Thermal Resistance, m ² K/W, min.	Density, kg/m ³ , min.	Compressive Strength, kPa, min.
100 (4")	0.029 (k=0.20)	3.53 (R-20)	20.8 (1.3 pcf)	103 (15 psi)
75 (3")	0.029 (k=0.20)	2.65 (R-15)	20.8 (1.3 pcf)	103 (15 psi)
50 (2")	0.029 (k=0.20)	1.77 (R-10)	20.8 (1.3 pcf)	103 (15 psi)

FOAMULAR® 250 Insulation

Thickness, mm	Thermal Conductivity, W/mK, max.	Thermal Resistance, m ² K/W, min.	Density, kg/m ³ , min.	Compressive Strength, kPa, min.
100 (4")	0.029 (k=0.20)	3.53 (R-20)	24.8 (1.55 pcf)	172 (25 psi)
75 (3")	0.029 (k=0.20)	2.65 (R-15)	24.8 (1.55 pcf)	172 (25 psi)
50 (2")	0.029 (k=0.20)	1.77 (R-10)	24.8 (1.55 pcf)	172 (25 psi)

FOAMULAR® 400 Insulation

Thickness, mm	Thermal Conductivity, W/mK, max.	Thermal Resistance, m ² K/W, min.	Density, kg/m ³ , min.	Compressive Strength, kPa, min.
100 (4")	0.029 (k=0.20)	3.53 (R-20)	28.9 (1.8 pcf)	276 (40 psi)
75 (3")	0.029 (k=0.20)	2.65 (R-15)	28.9 (1.8 pcf)	276 (40 psi)
50 (2")	0.029 (k=0.20)	1.77 (R-10)	28.9 (1.8 pcf)	276 (40 psi)

FOAMULAR® 600 Insulation

Thickness, mm	Thermal Conductivity, W/mK, max.	Thermal Resistance, m ² K/W, min.	Density, kg/m ³ , min.	Compressive Strength, kPa, min.
100 (4")	0.029 (k=0.20)	3.53 (R-20)	35.3 (2.2 pcf)	414 (60 psi)
75 (3")	0.029 (k=0.20)	2.65 (R-15)	35.3 (2.2 pcf)	414 (60 psi)
50 (2")	0.029 (k=0.20)	1.77 (R-10)	35.3 (2.2 pcf)	414 (60 psi)

FOAMULAR® 1000 Insulation

Thickness, mm	Thermal Conductivity, W/mK, max.	Thermal Resistance, m ² K/W, min.	Density, kg/m ³ , min.	Compressive Strength, kPa, min.
100 (4")	0.029 (k=0.20)	3.53 (R-20)	48.1 (3.0 pcf)	690 (100 psi)
75 (3")	0.029 (k=0.20)	2.65 (R-15)	48.1 (3.0 pcf)	690 (100 psi)
50 (2")	0.029 (k=0.20)	1.77 (R-10)	48.1 (3.0 pcf)	690 (100 psi)

Notes:

- SI, the International System of Units (Metric). I-P, inch-pound units (English).
- Conversions are approximate, rounded to the nearest significant digit that is customary for a given property as shown in the tables.
- I-P unit definitions:
 Thermal Conductivity, "k" = Btu•in/ft.²•hr•°F
 Thermal Resistance, "R" = hr•ft²•°F/Btu
 Compressive Strength, "psi" = pounds per square inch
 Density, "pcf" = pounds per cubic foot

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