



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, m²K/W, min.	Density, kg/m³, 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, m²K/W, min.	Density, kg/m³, 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, m²K/W, min.	Density, kg/m³, 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, m²K/W, min.	Density, kg/m³, 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, m²K/W, min.	Density, kg/m³, 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:

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

Disclaimer of Liability

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Owens Corning makes no representation about, and is not responsible or liable for the accuracy or reliability of data associated with particular uses of any product described herein. Nothing contained in this bulletin shall be considered a recommendation.



OWENS CORNING FOAM INSULATION, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO 43659
1-800-GET-PINK®
www.owenscorning.com

Pub. No. 10015703. Printed in U.S.A. September 2011. THE PINK PANTHER™ & ©1964-2011 Metro-Goldwyn-Mayer Studios Inc. All Rights Reserved. The color PINK is a registered trademark of Owens Corning. ©2011 Owens Corning.

