

Nudura

THERMOFOAM® 20



TECHNICAL DATA

Product Properties

Testing in accordance with Specification Standard ASTM C578-17 (USA) and CAN/ULC S701-11 (CAN) for Type II (2) EPS Foam

EPS Physical Properties Imperial (Metric) Values	ASTM Test Method	Spec. Std. Requirements	Results
Thermal resistance* F.ft ² .h/Btu (m ² •°C/W)	C518	Min: 4.0 (0.70)	4.05 (0.70)
Water vapor permeance* Perm. (ng/Pa.s.m ²)	E96	Max: 3.5 (200)	0.60 (35)
Dimensional stability (%)	D2126	Max: 1.5	1.0
Flexural strength lb/in ² (kPa)	C203	Min: 35 (240)	84 (575)
Water absorption (%)	D2842	Max: 4.0	1.8
Compressive properties lb/in ² (kPa)	D1621	Min: 16 (110)	19 (131)
Limiting oxygen index (%)	D2863	Min: 24	41

*NOTE: Property is expressed per 1-inch (25.4 mm) thickness of material.

Available Sizes

2ft x 8ft (610mm x 2438mm) with the following thicknesses;

Sheet Thickness	Thermal Resistance Value	Panel Edge Style
1 1/4" (32mm)	R-5 (RSI 0.88, U-Value 1.14 w/m ² •k)	Shiplap
1 7/8" (48mm)	R-7.5 (RSI 1.32, U-Value 0.76 w/m ² •k)	Tongue and Groove
2 1/2" (64mm)	R-10 (RSI 1.76, U-Value 0.57 w/m ² •k)	Tongue and Groove

WARNING

FLAMMABLE: Interior applications require a thermal barrier or ignition barrier as required by local Building Codes and all installations must comply with the National Building Code. To the best of our knowledge, the information contained herein is accurate. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use. The information provided herein, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. The manufacturer, supplier, nor any of its subsidiaries assumes any liability whatsoever for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices.

Technical Services, May 2020

Nudura

THERMOFOAM® 30



TECHNICAL DATA

Product Properties

Testing in accordance with Specification Standard ASTM C578-17 (USA) and CAN/ULC S701-11 (CAN) for Type III (3) EPS Foam

EPS Physical Properties Imperial (Metric) Values	ASTM Test Method	Spec. Std. Requirements	Results
Thermal resistance* F.ft ² .h/Btu (m ² •°C/W)	C518	Min: 4.2 (0.70)	4.2 (0.74)
Water vapor permeance* Perm. (ng/Pa.s.m ²)	E96	Max: 2.25 (130)	1.24 (71.3)
Dimensional stability (%)	D2126	Max: 1.5	0.16
Flexural strength lb/in ² (kPa)	C203	Min: 43.6 (300)	77 (529)
Water absorption (%)	D2842	Max: 2.0	0.12
Compressive properties lb/in ² (kPa)	D1621	Min: 20 (140)	35 (248)
Limiting oxygen index (%)	D2863	Min: 24	24

*NOTE: Property is expressed per 1-inch (25.4 mm) thickness of material.

Available Sizes

2ft x 8ft (610mm x 2438mm) with the following thicknesses;

Sheet Thickness	Thermal Resistance Value	Panel Edge Style
1 1/4" (32mm)	R-5.25 (RSI 0.92, U-Value 1.08 w/m ² •k)	Shiplap
1 7/8" (48mm)	R-7.9 (RSI 1.39, U-Value 0.72 w/m ² •k)	Tongue and Groove
2 1/2" (64mm)	R-10.5 (RSI 1.85, U-Value 0.54 w/m ² •k)	Tongue and Groove

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Technical Services, May 2020

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THERMOFOAM® 40



TECHNICAL DATA

Product Properties

Testing in accordance with Specification Standard ASTM C578-17 (USA) and CAN/ULC S701-11 (CAN) for Type III (3) EPS Foam

EPS Physical Properties Imperial (Metric) Values	ASTM Test Method	Spec. Std. Requirements	Results
Thermal resistance* F.ft ² .h/Btu (m ² •°C/W)	C518	Min: 4.2 (0.70)	4.26 (0.75)
Water vapor permeance* Perm. (ng/Pa.s.m ²)	E96	Max: 2.25 (130)	1.21 (70)
Dimensional stability (%)	D2126	Max: 1.5	0.4
Flexural strength lb/in ² (kPa)	C203	Min: 43.6 (300)	75 (513)
Water absorption (%)	D2842	Max: 2.0	0.14
Compressive properties lb/in ² (kPa)	D1621	Min: 20 (140)	44 (308)
Limiting oxygen index (%)	D2863	Min: 24	28

*NOTE: Property is expressed per 1-inch (25.4 mm) thickness of material.

Available Sizes

2ft x 8ft (610mm x 2438mm) with the following thicknesses;

Sheet Thickness	Thermal Resistance Value	Panel Edge Style
2 1/2" (64mm)	R-10.65 (RSI 1.88, U-Value 0.53 w/m ² •k)	Tongue and Groove

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Technical Services, May 2020