THERMOFOAM®

TECHNICAL DATA SHEET

EPS Physical Properties	ASTM Test Method	ULC S701 Type 2 Requirements	Results
Thermal resistance 1 in (25mm) hr·°F·ft²/BTU (m²·°C/W)	C-518	Min : 4.0 Min : (0.70)	4.05 (0.70)
Water vapour permeability Perm. (ng/Pa·s·m²)	E-96	Max : 3.5 Max : (200)	0.60 (35)
Dimensional stability (%)	D-2126	Max : 1.5	1.0
Flexural strength lb/in² (kPa)	C-203	Min : 35 Min : (240)	84 (575)
Water absorption (%)	D-2842	Max : 4.0	1.8
Compressive properties lb/in² (kPa)	D-1621	Min : 16 Min : (110)	19 (131)
Limiting oxygen index (%)	D-2863	Min : 24	41

The maximum continous service temperature °F (°C) is 167 (75).
The maximum intermittent service temperature °F (°C) is 180 (82.2).
The coefficient of thermal expansion in/in/°F (mm/mm/°C) is
3.5 x 10-5 (6 x 10-5c-1) as per ASTM D-696 method.

AVAILABLE SIZES

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

1 1/4 in (32mm), R-5, Shiplapped
1 7/8 in (48mm), R-7.5, Interlocking
2 1/2 in (64mm), R-10, Interlocking

ISO 9001:2015
Certified quality management system ISO 9001:2015

The expanded polystyrene used for THERMOFOAM® boards is Warnock Hersey (WH) certified according to the ULC S701 standard.

Warning

Flammable: interior applications require a protective barrier.

All installations must comply with the National Building Code. The information and suggestions contained in this brochure are provided solely for informational purposes and are offered in a spirit of collaboration. To our knowledge, we believe the information presented can be considered reliable. This brochure shall not constitute, in any case, a REPRESENTATION or a WARRANTY either EXPRESS or IMPLIED, either in terms of the information, data and suggestions included, or with respect to the absence or violation of any patent or other rights of third parties. Any proposed applications must be evaluated beforehand according to the application context and must, as a result, be adapted or modified to suit local conditions and materials if necessary.

NUDURA® INTEGRATED BUILDING TECHNOLOGY

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THERMOFOAM® 30

TECHNICAL DATA SHEET

EPS Physical Properties	ASTM Test Method	ULC S701 Type 3 Requirements	Results
Thermal resistance 1 in (25mm) hr·°F·ft²/BTU (m²·°C/W)	C-518	Min : 4.20 Min : (0.74)	4.20 (0.74)
Water vapour permeability Perm. (ng/Pa·s·m²)	E-96	Max : 2.25 Max : (130)	1.24 (71.3)
Dimensional stability (%)	D-2126	Max : 1.5	0.16
Flexural strength lb/in² (kPa)	C-203	Min : 43.6 Min : (300)	77 (529)
Water absorption (%)	D-2842	Max : 2.0	0.12
Compressive properties lb/in² (kPa)	D-1621	Min : 20 Min : (140)	35 (248)
Limiting oxygen index (%)	D-2863	Min : 24	24

The maximum continous service temperature °F (°C) is 167 (75).
The maximum intermittent service temperature °F (°C) is 180 (82.2).
The coefficient of thermal expansion in/in/°F (mm/mm/°C) is
3.5 x 10-5 (6 x 10-5c-1) as per ASTM D-696 method.

AVAILABLE SIZES

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

1 1/4 in (32mm), R-5.25, Shiplapped
1 7/8 in (48mm), R-7.9, Interlocking
2 1/2 in (64mm), R-10.5, Interlocking

ISO 9001:2015
Certified quality management system ISO 9001:2015

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THERMOFOAM® 40

TECHNICAL DATA SHEET

EPS Physical Properties	ASTM Test Method	ULC S701 Type 3 Requirements	Results
Thermal resistance 1 in (25mm) hr·°F·ft²/BTU (m²·°C/W)	C-518	Min : 4.20 Min : (0.74)	4.26 (0.75)
Water vapour permeability Perm. (ng/Pa·s·m²)	E-96	Max : 2,25 Max : (130)	1,21 (70)
Dimensional stability (%)	D-2126	Max : 1.5	0.4
Flexural strength lb/in² (kPa)	C-203	Min : 43.6 Min : (300)	75 (513)
Water absorption (%)	D-2842	Max : 2.0	0.14
Compressive properties lb/in² (kPa)	D-1621	Min : 20 Min : (140)	44 (308)
Limiting oxygen index (%)	D-2863	Min : 24	28

The maximum continous service temperature °F (°C) is 167 (75).
The maximum intermittent service temperature °F (°C) is 180 (82.2).
The coefficient of thermal expansion in/in/°F (mm/mm/°C) is
3.5 x 10-5 (6 x 10-5c-1) as per ASTM D-696 method.

AVAILABLE SIZES

2 ft x 8 ft (610mm x 2438mm) with the following thickness:
2 1/2 in (64mm), R-10.65, Interlocking

THERMOFOAM® 40 meets the #14301 MTQ requirements.

ISO 9001:2015
Certified quality management system ISO 9001:2015

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Warning

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