

## Description

Polyisocyanurate rigid foam

Blowing agents: Pentane and isomers

## Typical characteristics

Nominal density	ASTM D1622/EN 1602/EN ISO 845	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	2.5 (40)
Compressive strength – Parallel (74°F/23°C)	ASTM D1621/EN 826	psi (MPa)	49.4 (0,340)
Compressive strength - Perpendicular (weakest direction), (74°F/23°C)	ASTM D1621/EN 826	psi (MPa)	32 (0,220)
Tensile strength - Parallel (74°F/23°C)	ASTM D1623-A/EN 1607	psi (MPa)	66.8 (0,460)
Tensile strength - Perpendicular (weakest direction), (74°F/23°C)	ASTM D1623-A/EN 1607	psi (MPa)	50.8 (0,350)
Shear strength - Perpendicular (weakest direction), (74°F/23°C)	ASTM C273/EN 12090	psi (MPa)	29 (0,202)
Thermal conductivity - Initial (68°F/20°C)	ASTM C518/ASTM C177/EN 12667	BTU-in/hr-ft <sup>2</sup> ·°F (mW/mK)	0.154 (22.0)
Thermal conductivity - Initial (50°F/10°C)	ASTM C518/ASTM C177/EN 12667	BTU-in/hr-ft <sup>2</sup> ·°F (mW/mK)	0.146 (20.9)
Thermal conductivity - Initial (75°F/24°C)	ASTM C518/ASTM C177/EN 12667	BTU-in/hr-ft <sup>2</sup> ·°F (mW/mK)	0.158 (22.5)
Thermal conductivity - 180 days (75°F/24°C), (25 mm thickness sample aged 180 days at 23°C, 50% R.H.)	ASTM C518/ASTM C177/EN 12667	BTU-in/hr-ft <sup>2</sup> ·°F (mW/mK)	0.184 (26.0)
Fire reaction (maximum extent of burnt length)	EN ISO 3582	inches (mm)	<3.9 (<10)
Fire reaction (extinguishing time)	EN ISO 3582	s	<10
Surface burning characteristics	ASTM E84	FSI	<25
Surface burning characteristics	ASTM E84	Smoke Dev.	<200
Fire reaction	ASTM D3014	%	Rit. >90%
Fire reaction	UL 94-Horizontal Burning	Class	HBF
Index of fire	BKZ	Class	5.3
Leachable chlorides	ASTM C871/EN 13468	ppm	<20
Dimensional stability (-40°F/-40°C, 7 days) - linear change (length)	ASTM D2126/EN 1604	%	±0.5
Dimensional stability (+212°F/+100°C, 7 days) - Linear change (length)	ASTM D2126/EN 1604	%	+1.0
Dimensional stability (+158°F/70°C, 97% R.H., 7 days) - Linear change (length)	ASTM D2126/EN 1604	%	+1.5
Water absorption by volume	ASTM C272	%	<0.7



Operating temperature		°F (°C)	-299/+257 (-184/+125)
R-Value - 180 days, 1 inch (75°F/24°C)	ASTM C518/EN 12667	hr·ft <sup>2</sup> ·°F/BTU	5.44
Closed-cell content	ASTM D6226/EN ISO 4590	%	>92

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## Handling notice

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Terms "parallel" and "perpendicular" are referred to slab/specimen/block thickness direction.

In some applications polyurethane may present fire risks, e.g. if exposed to fire or to excessive heat in presence of oxygen or air, including when welding or cutting with torches.

It is the Customer's responsibility to determine if product described herein is appropriate for Customer's purposes and end-use and to ensure that working place, storage and disposal practices are in compliance with any applicable law.

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## Remarks

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For usage information, personal protective equipment, transport, storage and disposal of waste it is essential to refer to the Material Safety Data Sheets.

Values shown are determined from laboratory tests and obtained under controlled conditions; they outline typical characteristics and they do not constitute anyhow a sales specification; they are based on DUNA-USA's current knowledge and experience of the products when properly stored, handled and applied in accordance with our recommendations.

This Technical Data Sheet cancels and replaces any other previous issue.

DUNA-USA does not accept responsibility for incorrect use of its products as it cannot ensure the correct methods of application have been followed; we therefore specifically disclaim any liability for consequential or incidental damages of any kind, including lost profits.

DUNA-USA reserves the right to change the data in this information sheet without any prior notice.

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