



## TECHNICAL DATA SHEET

# NOMATEC® XLP<sub>a</sub> 30N

### DESCRIPTION

NOMATEC® XLP<sub>a</sub> is a cross-linked polyethylene foam with properties that make it particularly resilient and suitable for many specific purposes. Due to its closed cell structure, it absorbs almost no water and can be used in cold, hot, moist, wet, or dry environments.

NOMATEC® XLP<sub>a</sub> has a high mechanical strength and is available in special grades, including Soft (M), Extra Soft (S), Fire Resistant (FR), High Friction (HF), improved Lambda (L) and several others. NOMATEC® XLP<sub>a</sub> is supplied in the standard colors of white and anthracite but can be delivered in nearly all desired colors.

### MARKETS AND APPLICATIONS

NOMATEC® XLP<sub>a</sub> foams can be used in many applications in different markets such as:

- > Construction
- > Industry
- > Sport and leisure
- > Packaging
- > Transportation

### PROCESSING

- > NOMATEC® XLP<sub>a</sub> foam is easy to convert.
- > The foam can be combined with other materials, including felt, vinyl, PU foam, textile and textile membranes and PE films, through lamination using hot air and flame or different types of glues and adhesives.
- > Various types of embossing can be applied to improve the surface performance.
- > Different shapes can be produced by vacuum and or thermoforming.
- > The material can be cut and shaped using die cutting, sawing, water jet cutting, hot knife slicing, and milling machines.

### AVAILABILITY

- > NOMATEC® XLP<sub>a</sub> foams can be supplied in various densities, widths, thicknesses, and lengths.

<b>WIDTH</b>	<b>Rolls &amp; Sheets</b>	Max. 2.150 mm*	
<b>THICKNESS</b>	<b>Rolls &amp; Sheets</b>	3-15 mm*	One-layer
		16-100 mm*	Laminated in multi-layers
	<b>Blocks</b>	Max. 1.000 mm*	Laminated in multi-layers
<b>LENGTH</b>	<b>Rolls</b>	Max. 200 m*	



### BENEFITS

NOMATEC® XLP<sub>a</sub> products are versatile and can be used in a wide range of applications since they are:

- > thermal isolating
- > air-, moisture- and water-proof
- > resistant to most chemicals, fluids, and wear
- > resistant to bacteria and fungi growth
- > shock and vibration absorbent
- > light weight
- > durable
- > diverse in appearance using different color and or embossing
- > non-toxic, environment friendly

\*FOR SPECIFIC TOLERANCES PLEASE REFER TO THE STANDARD TOLERANCES SHEET ON NMC-NOMAFOAM.COM/EXTRANET





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### Foam

Material Group Cross-linked polyolefin foam

Cell Structure Closed cells

Properties	Norm	Unit	Typical value
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### Density

Nominal Density		kg/m <sup>3</sup>	30*
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### Tensile Strength

Lengthwise at break	EN ISO-1798	kPa	310
Crosswise at break	EN ISO-1798	kPa	260

### Tensile Elongation

Lengthwise at break	EN ISO-1798	%	114
Crosswise at break	EN ISO-1798	%	110

### Compression Stress/Strain (1st cycle)

25 % deflection	EN ISO-3386/1; v=100mm/min	kPa	53
50 % deflection	EN ISO-3386/1; v=100mm/min	kPa	118

### Thermal Stability

Recommended working temperature	Internal	°C	-50 to +95
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### Water Absorption

%vol. water absorption	DIN EN 12087 (24h - 23°C)	%vol.	≤1
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### Thermal Conductivity

at 10 °C	ISO-8301	W/mK	0,040
at 40 °C	ISO-8301	W/mK	0,045

### Fire Behavior

Fire class	DIN EN 13501-1		class F
Burning speed	FMVSS 302/ISO 3795	mm/min	<100 mm for thickness >9 mm

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FOR SAFETY, HANDLING AND STORAGE INFORMATION, PLEASE REFER TO THE RELATED SAFETY INFORMATION ON OUR WEBPAGE.



**Annotation:** This information is based on our actual knowledge. However, it doesn't constitute a guarantee of our product's characteristics and doesn't engage in any case our liability. Unless agreed in writing to the contrary, our technical documents as to the practicality, the behaviour or the potential performances of the goods are made on an indicative basis and depending on the most common use of the goods under normal conditions of application, use and climate (temperate regions of Europe) or the use which has been notified to us in writing by the client. Subject to the existence of a misrepresentation or serious fault on our part, such recommendations and other technical documents are not binding upon us. It is for the client to check them and verify their suitability for the intended use.

