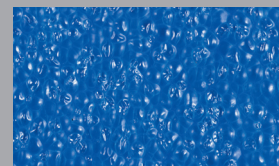


MATERIAL TYPES

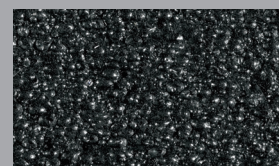
XPE



Physically extruded Polyethylene foam is a thermoplastic polymer with a temperature resistance up to 100° C.

Flexibility	*****
Thermal insulation	***
Thermoformability	
Resistance to water absorption	*****

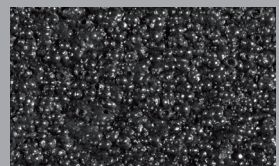
XLPO



Chemical cross-linked polyolefin foam with a temperature resistance up to 100°C and up to 200° C for short periods.

Flexibility	*****
Thermal insulation	***
Thermoformability	*****
Resistance to water absorption	****

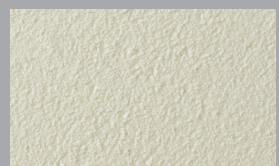
XPP



Extruded polypropylene foam is a thermoplastic polymer with a temperature resistance up to 120° C.

Flexibility	***
Thermal insulation	****
Thermoformability	*****
Resistance to water absorption	*****

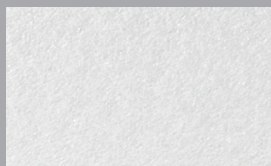
PUR



Closed-cell polyurethane is a thermosetting foam with a temperature resistance up to 110° C.

Flexibility	*
Thermal insulation	****
Thermoformability	
Resistance to water absorption	*

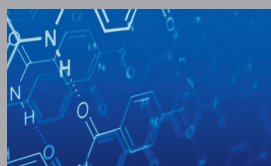
XPS/EPS



Physically extruded or expanded and formed polystyrene foams are thermoplastic polymers with a temperature resistance up to 70° C.

Flexibility	*
Thermal insulation	*****
Thermoformability	*****
Resistance to water absorption	*** XPS / * EPS

XPET



Extruded Polyethylene-Terephthalate foam is a thermoplastic polymer with a temperature resistance up to 210° C.

Flexibility	*
Thermal insulation	*****
Thermoformability	*****
Resistance to water absorption	***

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NOMATEC® MATERIALS TECHNICAL INFORMATION

MATERIAL PROCESSING



EXTRU- SION



Extrusion is the ability to create technical ambitious foam profiles; cross-linked or non-cross-linked sheets and rolls for both standard and custom designed specifications. Thanks to many years of experience, we are able to combine and optimise the whole process and production chain. Various densities, colours and tailor made profiles are also available upon request.

COEX- TRUSION



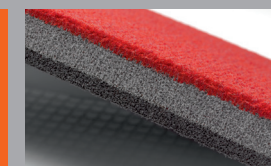
Coextrusion is a production process of foam in which two or more compatible feed materials are merged together. Foam profiles can be coated with an additional layer of non foamed material in various colours or they can be reinforced with an additional coating to increase for example their mechanical or UV resistance.

ADHE- SIVES



We are able to apply different types of adhesives to join materials together; either with a hot melt or an adhesive tape. The adhesion can be permanent or removable, adapted to a specific temperature range. We offer a great choice of possibilities.

LAMI- NATION



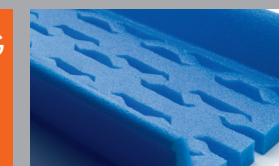
Lamination is the technique of manufacturing a material in multiple layers, so that the composite material achieves improved strength, sound insulation, appearance or other properties. Whether it will be foam on foam or semi-finished material lamination, high emissivity aluminum foil or hook and loop fastener – there are many possibilities.

THERMO- FOR- MING



Thermoforming is a manufacturing process where a foam product is heated and formed to a specific shape in a mould and finally trimmed to create a finished product. A wide range of extremely complex design criteria can be met and even three dimensional products can be realized.

CUTTING



Extruded profiles could be up-graded by additional mechanical process like cutting, milling or stamping. According to customer requirement they can be for example, equipped with special cuts to make them more flexible and elastic. Foam profiles can be finished partially cut to simplify handling and avoid waste material.

FIND MORE INFORMATION



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we will succeed together



XPE

PROPERTY	DENSITY	TENSILE STRENGTH	ELONGATION AT BREAK	COMPRESSION	COMPRESSION SET
Standard		ISO1798		ISO 3386/1 - 50% (first circle)	ISO1856 50%-75h-23°C
Unit	kg/m³	kPa	%	MPa	%
12 XOMER foam	18*	260	61,0	0,006	2,5
4 540-20	30**	170	96,0	0,006	8,5
5 540-10	30***	170	122,0	0,105	26,0
7 540-7	30***	330	120,0	0,119	20,0
6 540-11	30***	220	83,7	0,120	24,0
1 540-1	20	260	91,6	0,120	19,8
2 540-2	25	280	94,9	0,120	22,0
3 540-3	30	290	94,2	0,120	24,3
8 540-4	45	350	85,2	0,150	26,4
9 540-5	60	430	69,7	0,200	27,6
10 540-21	100	580	65,7	0,320	20,9
11 540-9	200	1200	41,6	1,200	19,6

* Based on XOMER foam technology
** Open cells XPE
*** Performance modified XPE
These technical data are just theoretical specifications made on indicative basis.
For specific and more concrete data, please contact our technical office.

XLPO

PROPERTY	DENSITY	TENSILE STRENGTH	ELONGATION AT BREAK	COMPRESSION	COMPRESSION SET
Standard		ISO1798		ISO 3386/1 - 50% (first circle)	ISO1856 50%-75h-23°C
Unit	kg/m³	kPa	%	MPa	%
19 3015ME86	30*	250	223	0,090	-
21 4007HF88	40*	330	194	0,098	11,0
20 3012,5M31	30*	300	196	0,102	30,0
13 3010N88	30	310	114	0,118	26,5
14 5006N86	50	430	134	0,142	23,6
15 9010N86	90	860	120	0,332	15,0
17 15003N88	150	1580	167	0,571	-
16 13010N86	130	1230	121	0,572	6,80
18 20003N88	200	2070	170	1,062	-

* Performance modified XLPO

APPLICATION AREAS



NOMATEC®

XPP

PROPERTY	DENSITY	TENSILE STRENGTH	ELONGATION AT BREAK	COMPRESSION	COMPRESSION SET
Standard		ISO1798		ISO 3386/1 - 50% (first circle)	ISO1856 50%-75h-23°C
Unit	kg/m³	kPa	%	MPa	%
24 517	30*	390	137,0	0,020	28,3
22 540-18	25	430	54,0	0,088	39,0
23 540-16	30	500	53,3	0,105	37,6
25 540-12	45	710	76,6	0,168	39,4
26 540-13	60	820	86,7	0,231	38,7
27 540-14	100	1230	42,8	0,421	39,3
28 540-15	200	2780	42,9	1,142	37,4

* Open cells XPP

APPLICATION AREAS



XPS

PROPERTY	DENSITY	COMPRESSION	COMPRESSION E MODULE
Standard		ISO 844 5%	ISO 844
Unit	kg/m³	MPa	MPa
29 Muster	35	-	-
30 D5CLWT200020/3000304 A WSTL Moul WT2	200	1,10	43,7
31 D5CLWD200020/3000301 A WSTL Moul WD2	300	1,90	78,8
32 WSTF01L002440300/3009557 W WOOD T&G TGF1	400	5,40	142,2
33 WSBF08O504601405/3009515 W WOOD Blind BL8	500	9,20	256,5
34 WSDJ01L004000600/3009548 W WOOD Deck DBJ1	600	15,65	462,7

XPET

Standard		ISO 844 5%	ISO 844
Unit	kg/m³	MPa	MPa
35 NF/DE/2847/PT/WZ/1302-2	60	0,10	2,50
36 RD/PT/PO 1101 (mélange 13) 11/04/2012	80	0,30	9,20
38 RD/PT/PO 1101-19	100	0,41	12,40
39 RD/PT/PO 1101-20	125	0,72	21,60
37 RD/PT/PO 1101-21	150	1,04	32,20