

recycled content.

lower carbon footprint, such as Neopor® BMB for thermal insulation or Styropor® Ccycled® for packaging as well as Neopor® Mcycled™ containing

A Complete Product Range for All Construction and Packaging Applications

For conventional EPS insulation applications, BASF's range includes the Styropor® F 15 R product types. Peripor® rounds out BASF's offering for the construction segment. With its short cycle times during processing and its low water absorption, the product fulfills the most demanding requirements.

In addition, BASF serves the packaging industry with its EPS product range: The products of the Styropor® P 26 series are characterized by their mechanical strength.

Product		Flame retar- dant		Shape- mould- ing	Loose filling	Insulation perfor- mance		Typical application density (kg/m³)	Typical applications
Styropor® F	15 R Pe	entane co	ntent: ~	5.3%					
Styropor® F 215 R	0	✓	✓		√	+	1.0 - 2.0	≤12* - 25	Exterior insulation (ETICS), wall and floor insulation
Styropor® F 215 R-L		✓	√		✓	+	1.0 - 2.0	≤11* - max. 15	Only for low density applications (e.g. impact sound insulation, low density spacers in construction elements, loose beads)
Styropor® F 315 R	0	✓	✓	✓		+	0.7 - 1.0	16 - 30	Roof, wall and floor insulation, insulating concrete forms (ICF)
Styropor® F 315 R-L		√	✓	✓		+	0.7 - 1.0	15 - 25	Roof, wall and floor insulation, foam cut-outs and contour cutting
Styropor® F 415 R	0	✓		✓		+	0.4 - 0.7	20 - 30	Decorative ceiling panels, technical mouldings
Peripor® R	Pentane	content:	~5.3 %						
Peripor® 200 R		✓	✓	✓		+	1.0 - 2.0	22 - 30	Perimeter insulation, flat roof insulation, sanitary components
Peripor® 300 R		✓		✓		+	0.7 - 1.0	25 - 30	Perimeter insulation, flat roof insulation, sanitary components
Styropor® P	26 Pen	tane cont	tent: ~6.0	0%					
Styropor® P 226 C	0		✓	✓		0	0.9 - 1.3	10* - 30	Insulation without flame-retardant requirement, packaging, blocks for contour cutting
Styropor® P 326	0			✓		0	0.7 - 0.9	16 - 30	Packaging, insulated containers (e.g. fish boxes)
Styropor® P 326 C	0			✓		0	0.7 - 0.9	18 - 50	For cycletime-optimized production of mouldings
Styropor® P 426	0			✓		0	0.4 - 0.7	18 - 30	For thin-walled mouldings
Styropor® P 426 C	0			✓		0	0.4 - 0.7	20 - 50	For cycletime-optimized production of thin-walled mouldings
Styropor® P 656					√	0	0.2 - 0.4	12 - 25	Aggregate for lightweight plaster and bitumen sealing compounds

^{*} by double pass expansion



also available as BMB-certified product

BASF's Neopor® brand features the broadest product portfolio in the grey EPS segment and thus supplements the traditional Styropor® range. It stands out with its improved product characteristics and therefore enables more efficient insulation solutions, resulting in a better ratio between cost and insulation value.

Neopor® is produced using two technologies: polymerization and extrusion. The product range comprises the Neopor® F 2000 series and the Neopor® F 5000 series.

Neopor® F 2000:

- Produced by polymerization
- In the market since 1998
- Characterized by a silver-grey color and spherical particles

Neopor® F 5000:

- Produced by extrusion
- In the market since 2009
- Characterized by good processing properties
- Neopor® F 5200 Plus/F 5300 Plus and Neopor® P 5200 with optimized insulation performance
- Neopor® F 5 PRO with optimized cycle time and water uptake
- Neopor® F 5 Mcycled[™] with a post consumer EPS recycled content of 10%

Product		Flame retar- dant		Shape- mould- ing	Loose filling	Insulation perfor- mance	Bead size range (mm)	Typical application density (kg/m³)	Typical applications
Polymerizati	on – Ne	opor® 200	00 Penta	ine conte	ent: ~5.3	%			
Neopor® F 2200		✓	✓		✓	++	1.4 - 2.5	12* - 25	Exterior insulation (ETICS), cavity wall insulation
Neopor® F 2300	0	✓	✓	✓	\checkmark	++	0.8 - 1.4	12* - 25	Exterior insulation (ETICS), flat roof insulation, cavity wall insulation attic insulation, ceiling insulation, steep roof insulation
Neopor® F 2400	0	✓		✓		++	0.5 - 0.8	16 - 24	Insulating concrete forms (ICF), technical mouldings, insulation containers
Neopor® F 4 Speed	0	✓	(<u>/</u>)	✓		++	0.5 - 0.8	22 - 30	For cycletime-optimized production of blocks and mouldings in the medium and high density range
Extrusion – N	leopor [®]	[®] 5000							
Pentane con	tent: ~5	5.3%							
Neopor® P 5200	0		✓		✓	+++	1.2 - 1.6	10* - 20	Interior insulation, cavity wall insulation, applications without flame-retardant requirements
Neopor® F 5300 Plus	0	✓	✓	✓	\checkmark	+++	0.9 - 1.4	12* - 20	Exterior insulation (ETICS), flat roof insulation, attic insulation, cavity wall insulation
Pentane con	tent: ~5	5.5%							
Neopor® F 5200	0	✓	✓		✓	++	1.2 - 1.6	12* - 25	Exterior insulation (ETICS), interior insulation, attic insulation, ceiling insulation, steep roof insulation, cavity wall insulation
Neopor® F 5200 Plus	0	✓	✓		\checkmark	+++	1.2 - 1.6	12* - 20	Exterior insulation (ETICS), cavity wall insulation
Neopor [®] F 5 Mcycled¹	`M**	✓	✓		✓	+++	1.2 - 1.6	12* - 18	Exterior insulation (ETICS), cavity wall insulation
Pentane con	tent: ~4	1.5%							
Neopor® F 5 PRO	0	√	✓	✓		++	0.9 - 1.4	25 - 35	Perimeter insulation, flat roof insulation

^{*} by double pass expansion

^{**} post consumer EPS recycled content 10 %





Product groups	Key properties				
Styropor® P 26 (not flame retardant)	 Particularly energy-efficient operation, short cycle times, close density distribution Foam suitable for direct contact with food (except for Styropor® P 656) 				
Styropor® F 15 R (flame retardant)	 Universally applicable for all building and construction applications as well as for technical shape mouldings Reduced blowing agent content Foams with favorable insulation properties Foams fulfill the requirements of Class E according to EN 13501-1 				
Peripor® R (flame retardant)	 Short cycle times, for medium to high densities, close density distribution Reduced blowing agent content Foams producible with particularly low water absorption in immersion test and in diffusion test Foams fulfill the requirements of Class E according to EN 13501-1 				
Neopor® F 2000 (flame retardant)	 Energy-efficient operation, optimal expandability, low densities, close density distribution Silver-grey foams with particularly favorable thermal insulation properties Foams fulfill the requirements of Class E according to EN 13501-1 				
Neopor® F 5000 (flame retardant)	 Energy-efficient operation, short cycle times, low densities, close density distribution Grey foams with particularly favorable thermal insulation properties Foams fulfill the requirements of Class E according to EN 13501-1 				
Neopor® F 5 PRO (flame retardant)	 Short cycle times, for medium to high densities, close density distribution Foams producible with particularly low water absorption in immersion test and in diffusion test Reduced blowing agent content Grey foams with particularly favorable thermal insulation properties Foams fulfill the requirements of Class E according to EN 13501-1 				
Neopor® P 5200 (not flame retardant)	■ Energy-efficient operation, optimal expandability, low densities, close density distribution ■ Grey foams with particularly favorable thermal insulation properties				
Neopor® F5 Mcycled™ (flame retardant)	 REDcert² certified Post Consumer EPS Recycled Content Energy-efficient operation, short cycle times, low densities, close density distribution Grey foams with particularly favorable thermal insulation properties Foams fulfill the requirements of Class E according to EN 13501-1 				



Styropor® and Neopor® BMB

The Styropor® and Neopor® BMB grades are produced under the mass balance approach. The EPS Biomass Balance grades have the same final properties as the standard Styropor® and Neopor® portfolio by BASF. Also, the processing remains the same.

BASF's BMB products are manufactured by replacing fossil feedstock with an equivalent amount of renewable resources at the very beginning of the value chain. This kind of production saves fossil resources and further improves the positive sustainability profile of EPS. The attribution of the renewable share of feedstock according to a mass balance approach is certified by REDcert².

Find out more about our biomass balance approach: www.neopor.com

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. (August 2024)