

Styropor[®] expandable polystyrene PRODUCT SELECTION

Product Range

The following tables list the types and grades of Styropor and related products currently available, either as standard products, specialty products or developmental products.

Details of properties, product specifications and intended uses of products families are given in the appropriate Technical Leaflets S-3 or individual Technical Leaflets S-2 (or Provisional Leaflets for developmental products).

Standard Products

BF 195	1.18 – 2.5	Foam panel insulation, Geofam, SIPS, ETICS and flooring	Modified (fire retarded), standard (5.7 – 6.4 wt%) pentane products
BF 295	0.85 – 1.70	Foam panel insulation, Geofam, SIPS, ETICS and flooring	
BF 395	0.60 – 1.20	Foam panel insulation, Geofam, SIPS, ICF, ETICS and general packaging	
BF 395S	0.60 – 1.20	Foam panel insulation, Geofam, SIPS, EIFS and general packaging	
BF 495	0.35 – 0.85	Foam panel insulation, SIPS, EIFS, ICF, high density perimeter insulation board and general packaging	
BFL 295	0.85 – 1.70	Foam panel insulation, Geofam, SIPS, ETICS and flooring	Modified (fire retarded) (3.45 – 3.65 wt%) low pentane products.
BFL 395	0.85 – 1.25	Foam panel insulation, Geofam, SIPS, ICF and ETICS	
BFL 397	0.60 – 1.25	Foam panel insulation, SIPS, EIFS, ICF and high density perimeter insulation boards	
BFL 397S	0.60 – 1.25	Foam panel insulation, SIPS, EIFS, ICF and high density perimeter insulation boards	
BFL 495	0.42 – 0.85	Foam panel insulation, SIPS, EIFS, ICF, high density perimeter insulations boards and general packaging	
P 240A H	0.85 – 1.70	Shape molding of thick walled parts, including: high density applications (greater than 2.0 pcf) with fast molding cycles. High strength boxes	Non-modified standard (5.2 – 5.8 wt%) pentane
P 340A H	0.60 – 1.25	Wide variety of shape molding applications, typically 1.4 lbs/ft ³ density and above applications with excellent fusion and requiring short aging and cycle time.	
P 340C H	0.60 – 1.25	A narrow bead size used for a wide variety of shape molding applications, typically 1.0 lbs/ft ³ density and above applications excellent fusion and surface finish and short cycle time	
P 440 H	0.355 – 0.85	Shape molding of thin walled parts with fast molding cycles. Seedling trays, printed surface applications, leak resistant applications, such as fish boxes and coolers	

1) For additional information, please see our technical data sheets for each product series.

Diameter (mm) of Pre-expanded Styropor® Beads

Bulk Density lbs/ft ⁻³ (kg/m ⁻³)	Raw Material Bead Diameter (mm)														
	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0
0.62 (10)	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8.0	8.8	9.6	10.5	11.3	12.1
0.75 (12)	0.8	1.5	2.3	3.0	3.8	4.5	5.3	6.1	6.8	7.6	8.3	9.1	9.8	10.6	11.4
0.88 (14)	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.8	6.5	7.2	7.9	8.6	9.3	10.1	10.8
1.00 (16)	0.7	1.4	2.1	2.8	3.4	4.1	4.8	5.5	6.2	6.9	7.6	8.3	8.9	9.6	10.3
1.12 (18)	0.7	1.3	2.0	2.6	3.3	4.0	4.6	5.3	5.9	6.6	7.3	7.9	8.6	9.3	9.9
1.25 (20)	0.6	1.3	1.9	2.6	3.2	3.8	4.5	5.1	5.7	6.4	7.0	7.7	8.3	8.9	9.6
1.56 (25)	0.6	1.2	1.8	2.4	3.0	3.6	4.1	4.7	5.3	5.9	6.5	7.1	7.7	8.3	9.0
1.88 (30)	0.6	1.1	1.7	2.2	2.8	3.3	3.9	4.5	5.0	5.6	6.1	6.7	7.2	7.8	8.4
2.50 (40)	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.6
3.12 (50)	0.5	0.9	1.4	1.9	2.4	2.8	3.3	3.8	4.2	4.7	5.2	5.6	6.1	6.6	7.1
3.75 (60)	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.5	4.0	4.4	4.9	5.3	5.8	6.2	6.6
5.00 (80)	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0
6.25 (100)	0.4	0.7	1.1	1.5	1.9	2.2	2.6	3.0	3.4	3.7	4.1	4.5	4.9	5.2	5.6

About the chart: **Bulk Density** column shows the target pre-expanded bead density in lbs/ft⁻³ (kg/m⁻³). **Raw Material Bead Diameter** line (0.2 - 3.0 mm) can be taken from the Typical Particle Size in the Standard Products table on the previous pages. The **intersection** of the Bulk Density and the Raw Material Bead Diameter shows the approximate pre-expanded diameter in mm.

IMPORTANT: While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data, and information given or results obtained, all such being given and accepted at your risk.

Values shown are based on limited testing and are not intended to be used in establishing maximum or minimum ranges for specification purpose.

BASF Corporation
1609 Biddle Avenue
Wyandotte, IM 48192
973-907-6377

 **BASF**
The Chemical Company