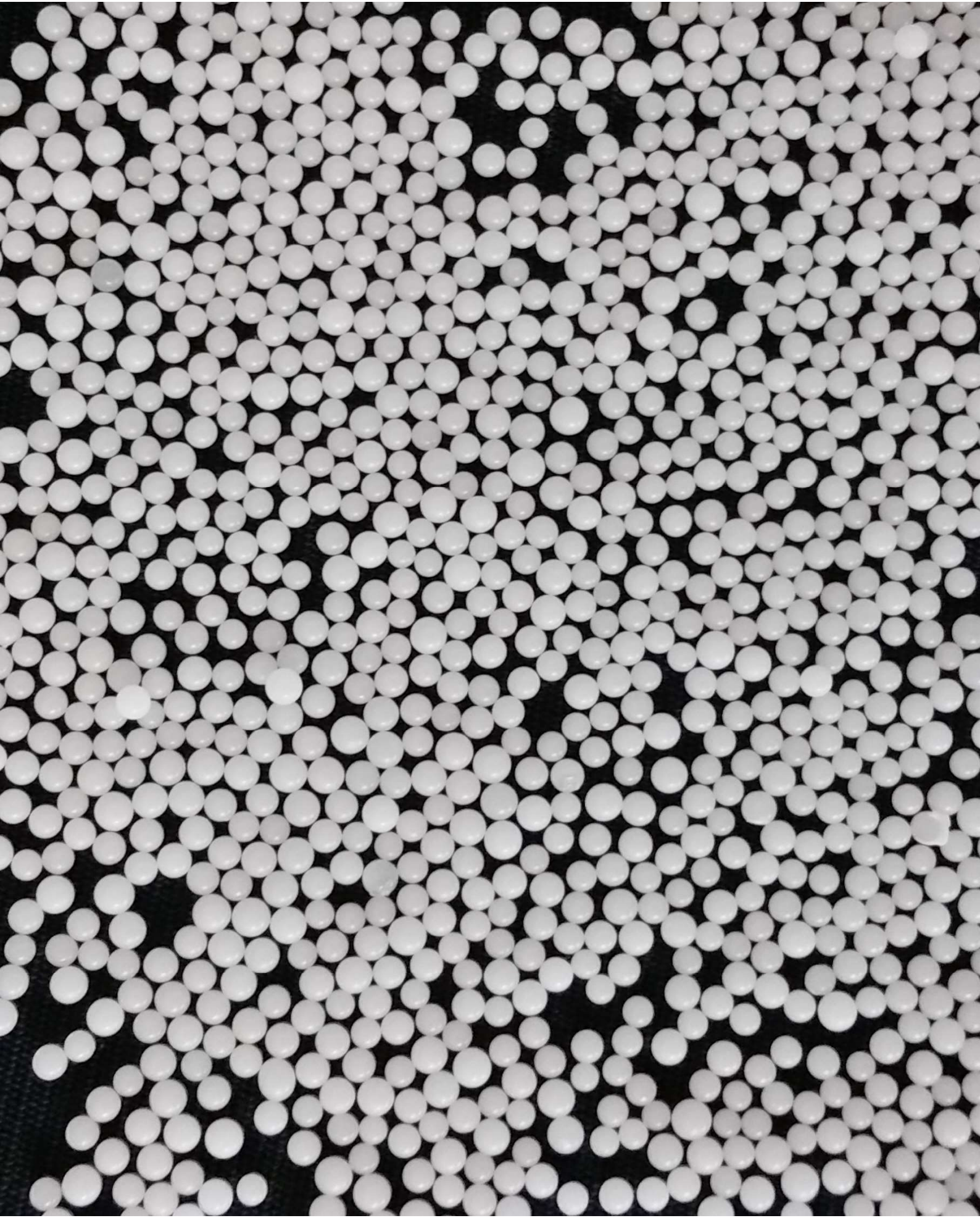


Baniar Polymer  
Expandable Polystyrene (EPS)  
Flame Retardant



**BANIAR**



## Baniar Polymer Expandable Polystyrene (EPS) Flame Retardant

### Specific Characteristics

Baniar EPS is an expandable polystyrene (EPS) resin which contains pentane gas as foam blowing agent and the cycloaliphatic brominated hydrocarbon as its flame retardant agent.

Flame Retardant series are suitable for self-extinguishing applications where the oxygen index is potentially high. Its self-extinguishing characteristics has been certified by German DIN 4102 Part 1 - Class B2 Standard on Flame Retardants.

Baniar EPS exhibits outstanding expansion, insulation, moisture proofing and mechanical load bearing properties. These properties makes it a great candidate, in whatever required size and thickness, to be used for roofing, walls, foundations, and perimeter insulation with relative ease regardless of the structural system or exterior finish.

### Selection Criteria

End users may choose among our four different grades based on the required pre-expansion densities. Blowing agent content, moisture content and thermal conductivity has been engineered to be at the same level for all products.

Grades	Bead Size (≥ 99.0%) mm	Pre-expansion Density* g/l	Blowing Agent Content wt%	Moisture Content wt%	K-value** × 10 <sup>-3</sup> W/mK
F-1000	1.4-2.0	11-12	≥ 6.0	≤ 0.80	55.5-57.5
F-2000	0.9-1.4	12-14	≥ 6.0	≤ 0.80	55.5-57.5
F-3000	0.7-1.0	14-16	≥ 6.0	≤ 0.80	55.5-57.5
F-4000	0.5-0.8	16-18	≥ 6.0	≤ 0.80	55.5-57.5

\* Foam Lower densities could be achieved in multiple pre-expansions.

\*\* Thermal Conductivity, K-factor or Lambda

Through extra expansions, densities as low as 7 g/l can be achieved without losing any thermal or mechanical characteristics,

### Technical Support

With about four decades of experience in producing and using EPS-based 3D panels and blocks for construction insulation purposes, our team of experts are always ready to give technical consult to customers in EPS expansion and processing and energy saving considerations in buildings.

Note: The above information is provided in good faith. Baniar Polymer is not responsible for any processing or compounding which may occur to produce finished articles, packaging materials or their components. Responsibility for use, storage, handling and disposal of the products described herein is that of the purchaser or end user.