BANIAR

# P-1000

## Expandable Polystyrene (EPS) High Expansion

### Description

P-1000 is an expandable polystyrene (EPS) resin which contains pentane gas as foam blowing agent.

This grade exhibits outstanding expansion, insulation, moisture proofing and mechanical load bearing properties.

### Applications

Generally used for packaging of electronic appliances, home appliances, artworks, and sporting goods, outdoor thermal installation and shape-molded products.

### Packaging

Baniar EPS are available in two packaging types:

- 25 kg woven polypropylene laminated double-layered Kraft sacks
- 1000 kg polypropylene bulk jumbo bags

### Storage

For Baniar EPS to keep all characteristics, we advise to store the containers indoor in a dry, cool and well-ventilated area in the ambient temperature preferably below 20 °C.

EPS should not be exposed to direct sunlight, heat, flame, rain, snow or frost.

Once the package is opened, the EPS should be used as soon as possible and not be left open for a long time.

### Cautions

Baniar EPS is not classified as a dangerous material but may produce flammable vapors. Thus:

- Only store in well-ventilated premises.
- No fire nor sparks in the vicinity.
- No smoking nor welding.

### Recycling

The wastes of Baniar EPS products could be re-used through mixing with virgin materials after proper grinding and cleaning.

### P-1000 Physical and Chemical Properties

Appearance: Ivory-white pearl-like sphere

| Property | Unit | Value† | Test Method |
|---|---|---|---|
| Bead Size ≥99% | Mm | 1.4-2.0 | ASTM D1921 |
| Blowing Agent Content (Pentane) | wt% | ≥6.0 | ISO 2561 |
| Moisture Content | wt% | ≤0.80 | ASTM D6869 |
| Coating Agent Content | wt% | <0.30 | * |
| Residual Monomer | wt% | <0.30 | ISO 2561 |
| Pre-Expanded Density | g/l | 10-11 | ASTM D792 |
| Expanded Density | g/l | 7 | ASTM D1622 |
| Specific Gravity | - | 1.02-1.05 | ASTM D792 |
| Expansion Ratio | times | 50-95 | * |
| Fusion (Min.) | % | 65 | * |
| CFC Content | % | 0 | ** |
| K Value | - | > 60 | ASTM D5225 |
| Flammability | - | - | *** |

† Values are typical, and are intended as guides only, not as specifications.

* Industrial performance test

** The product is free of CFC and blowing agent is Pentane

*** Flammable

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.

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# P-2000

## Expandable Polystyrene (EPS) High Expansion

### Description

P-2000 is an expandable polystyrene (EPS) resin which contains pentane gas as foam blowing agent.

This grade exhibits outstanding expansion, insulation, moisture proofing and mechanical load bearing properties.

### Applications

Generally used for packaging of electronic appliances, home appliances, artworks, and sporting goods, outdoor thermal installation and shape-molded products.

### Packaging

Baniar EPS are available in two packaging types:

- 25 kg woven polypropylene laminated double-layered Kraft sacks
- 1000 kg polypropylene bulk jumbo bags

### Storage

For Baniar EPS to keep all characteristics, we advise to store the containers indoor in a dry, cool and well-ventilated area in the ambient temperature preferably below 20 °C.

EPS should not be exposed to direct sunlight, heat, flame, rain, snow or frost.

Once the package is opened, the EPS should be used as soon as possible and not be left open for a long time.

### Cautions

Baniar EPS is not classified as a dangerous material but may produce flammable vapors. Thus:

- Only store in well-ventilated premises.
- No fire nor sparks in the vicinity.
- No smoking nor welding.

### Recycling

The wastes of Baniar EPS products could be re-used through mixing with virgin materials after proper grinding and cleaning.

### P-2000 Physical and Chemical Properties

Appearance: Ivory-white pearl-like sphere

| Property | Unit | Value† | Test Method |
|---|---|---|---|
| Bead Size ≥99% | mm | 0.9-1.4 | ASTM D1921 |
| Blowing Agent Content (Pentane) | wt% | ≥6.0 | ISO 2561 |
| Moisture Content | wt% | ≤0.80 | ASTM D6869 |
| Coating Agent Content | wt% | <0.30 | * |
| Residual Monomer | wt% | <0.30 | ISO 2561 |
| Pre-Expanded Density | g/l | 10-13 | ASTM D792 |
| Expanded Density | g/l | 8 | ASTM D1622 |
| Specific Gravity | - | 1.02-1.05 | ASTM D792 |
| Expansion Ratio | times | 50-95 | * |
| Fusion (Min.) | % | 65 | * |
| CFC Content | % | 0 | ** |
| K Value | - | > 60 | ASTM D5225 |
| Flammability | - | - | *** |

† Values are typical, and are intended as guides only, not as specifications.

* Industrial performance test

** The product is free of CFC and blowing agent is Pentane

*** Flammable

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# P-3000

## Expandable Polystyrene (EPS) High Expansion

### Description

P-3000 is an expandable polystyrene (EPS) resin which contains pentane gas as foam blowing agent.

This grade exhibits outstanding expansion, insulation, moisture proofing and mechanical load bearing properties.

### Applications

Generally used for packaging of electronic appliances, home appliances, artworks, and sporting goods, outdoor thermal installation and shape-molded products.

### Packaging

Baniar EPS are available in two packaging types:

- 25 kg woven polypropylene laminated double-layered Kraft sacks
- 1000 kg polypropylene bulk jumbo bags

### Storage

For Baniar EPS to keep all characteristics, we advise to store the containers indoor in a dry, cool and well-ventilated area in the ambient temperature preferably below 20 °C.

EPS should not be exposed to direct sunlight, heat, flame, rain, snow or frost.

Once the package is opened, the EPS should be used as soon as possible and not be left open for a long time.

### Cautions

Baniar EPS is not classified as a dangerous material but may produce flammable vapors. Thus:

- Only store in well-ventilated premises.
- No fire nor sparks in the vicinity.
- No smoking nor welding.

### Recycling

The wastes of Baniar EPS products could be re-used through mixing with virgin materials after proper grinding and cleaning.

### P-3000 Physical and Chemical Properties

Appearance: Ivory-white pearl-like sphere

| Property | Unit | Value† | Test Method |
|---|---|---|---|
| Bead Size ≥99% | mm | 0.7-1.0 | ASTM D1921 |
| Blowing Agent Content (Pentane) | wt% | ≥6.0 | ISO 2561 |
| Moisture Content | wt% | ≤0.80 | ASTM D6869 |
| Coating Agent Content | wt% | <0.30 | * |
| Residual Monomer | wt% | <0.30 | ISO 2561 |
| Pre-Expanded Density | g/l | 13-15 | ASTM D792 |
| Expanded Density | g/l | 10 | ASTM D1622 |
| Specific Gravity | - | 1.02-1.05 | ASTM D792 |
| Expansion Ratio | times | 50-95 | * |
| Fusion (Min.) | % | 65 | * |
| CFC Content | % | 0 | ** |
| K Value | - | > 60 | ASTM D5225 |
| Flammability | - | - | *** |

† Values are typical, and are intended as guides only, not as specifications.

* Industrial performance test

** The product is free of CFC and blowing agent is Pentane

*** Flammable

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# P-4000

## Expandable Polystyrene (EPS) High Expansion

### Description

P-4000 is an expandable polystyrene (EPS) resin which contains pentane gas as foam blowing agent.

This grade exhibits outstanding expansion, insulation, moisture proofing and mechanical load bearing properties.

### Applications

Generally used for packaging of electronic appliances, home appliances, artworks, and sporting goods, outdoor thermal installation and shape-molded products.

### Packaging

Baniar EPS are available in two packaging types:

- 25 kg woven polypropylene laminated double-layered Kraft sacks
- 1000 kg polypropylene bulk jumbo bags

### Storage

For Baniar EPS to keep all characteristics, we advise to store the containers indoor in a dry, cool and well-ventilated area in the ambient temperature preferably below 20 °C.

EPS should not be exposed to direct sunlight, heat, flame, rain, snow or frost.

Once the package is opened, the EPS should be used as soon as possible and not be left open for a long time.

### Cautions

Baniar EPS is not classified as a dangerous material but may produce flammable vapors. Thus:

- Only store in well-ventilated premises.
- No fire nor sparks in the vicinity.
- No smoking nor welding.

### Recycling

The wastes of Baniar EPS products could be re-used through mixing with virgin materials after proper grinding and cleaning.

### P-4000 Physical and Chemical Properties

Appearance: Ivory-white pearl-like sphere

| Property | Unit | Value† | Test Method |
|---|---|---|---|
| Bead Size ≥99% | Mm | 0.5-0.8 | ASTM D1921 |
| Blowing Agent Content (Pentane) | wt% | ≥6.0 | ISO 2561 |
| Moisture Content | wt% | ≤0.80 | ASTM D6869 |
| Coating Agent Content | wt% | <0.30 | * |
| Residual Monomer | wt% | <0.30 | ISO 2561 |
| Pre-Expanded Density | g/l | 15-17 | ASTM D792 |
| Expanded Density | g/l | 12 | ASTM D1622 |
| Specific Gravity | - | 1.02-1.05 | ASTM D792 |
| Expansion Ratio | times | 50-95 | * |
| Fusion (Min.) | % | 65 | * |
| CFC Content | % | 0 | ** |
| K Value | - | > 60 | ASTM D5225 |
| Flammability | - | - | *** |

† Values are typical, and are intended as guides only, not as specifications.

* Industrial performance test

** The product is free of CFC and blowing agent is Pentane

*** Flammable

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.

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# P-500

## Expandable Polystyrene (EPS) High Expansion

### Description

P-500 is an expandable polystyrene (EPS) resin which contains pentane gas as foam blowing agent.

This grade exhibits outstanding expansion, insulation, moisture proofing and mechanical load bearing properties.

### Applications

Generally used for packaging of electronic appliances, home appliances, artworks, and sporting goods, outdoor thermal installation and shape-molded products.

### Packaging

Baniar EPS are available in two packaging types:

- 25 kg woven polypropylene laminated double-layered Kraft sacks
- 1000 kg polypropylene bulk jumbo bags

### Storage

For Baniar EPS to keep all characteristics, we advise to store the containers indoor in a dry, cool and well-ventilated area in the ambient temperature preferably below 20 °C.

EPS should not be exposed to direct sunlight, heat, flame, rain, snow or frost.

Once the package is opened, the EPS should be used as soon as possible and not be left open for a long time.

### Cautions

Baniar EPS is not classified as a dangerous material but may produce flammable vapors. Thus:

- Only store in well-ventilated premises.
- No fire nor sparks in the vicinity.
- No smoking nor welding.

### Recycling

The wastes of Baniar EPS products could be re-used through mixing with virgin materials after proper grinding and cleaning.

### P-500 Physical and Chemical Properties

Appearance: Ivory-white pearl-like sphere

| Property | Unit | Value† | Test Method |
|---|---|---|---|
| Bead Size ≥99% | mm | 2.0-3.0 | ASTM D1921 |
| Blowing Agent Content (Pentane) | wt% | ≥6.0 | ISO 2561 |
| Moisture Content | wt% | ≤0.80 | ASTM D6869 |
| Coating Agent Content | wt% | <0.30 | * |
| Residual Monomer | wt% | <0.30 | ISO 2561 |
| Pre-Expanded Density | g/l | 9-10 | ASTM D792 |
| Expanded Density | g/l | 7 | ASTM D1622 |
| Specific Gravity | - | 1.02-1.05 | ASTM D792 |
| Expansion Ratio | times | 50-95 | * |
| Fusion (Min.) | % | 65 | * |
| CFC Content | % | 0 | ** |
| K Value | - | > 60 | ASTM D5225 |
| Flammability | - | - | *** |

† Values are typical, and are intended as guides only, not as specifications.

* Industrial performance test

** The product is free of CFC and blowing agent is Pentane

*** Flammable

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# P-5000

## Expandable Polystyrene (EPS) High Expansion

### Description

P-5000 is an expandable polystyrene (EPS) resin which contains pentane gas as foam blowing agent.

This grade exhibits outstanding expansion, insulation, moisture proofing and mechanical load bearing properties.

### Applications

Expanded Polystyrene Sheet.Shape molding

### Packaging

Baniar EPS are available in two packaging types:

- 25 kg woven polypropylene laminated double-layered Kraft sacks
- 1000 kg polypropylene bulk jumbo bags

### Storage

For Baniar EPS to keep all characteristics, we advise to store the containers indoor in a dry, cool and well-ventilated area in the ambient temperature preferably below 20 °C.

EPS should not be exposed to direct sunlight, heat, flame, rain, snow or frost.

Once the package is opened, the EPS should be used as soon as possible and not be left open for a long time.

### Cautions

Baniar EPS is not classified as a dangerous material but may produce flammable vapors. Thus:

- Only store in well-ventilated premises.
- No fire nor sparks in the vicinity.
- No smoking nor welding.

### Recycling

The wastes of Baniar EPS products could be re-used through mixing with virgin materials after proper grinding and cleaning.

### P-5000 Physical and Chemical Properties

Appearance: Ivory-white pearl-like sphere

| Property | Unit | Value† | Test Method |
|---|---|---|---|
| Bead Size ≥99% | mm | 0.3-0.5 | ASTM D1921 |
| Blowing Agent Content (Pentane) | wt% | ≥5.0 | ISO 2561 |
| Moisture Content | wt% | ≤0.80 | ASTM D6869 |
| Coating Agent Content | wt% | <0.30 | * |
| Residual Monomer | wt% | <0.30 | ISO 2561 |
| Pre-Expanded Density | g/l | 20-22 | ASTM D792 |
| Expanded Density | g/l | 15 | ASTM D1622 |
| Specific Gravity | - | 1.02-1.05 | ASTM D792 |
| Expansion Ratio | times | 50-95 | * |
| Fusion (Min.) | % | 65 | * |
| CFC Content | % | 0 | ** |
| K Value | - | > 60 | ASTM D5225 |
| Flammability | - | - | *** |

† Values are typical, and are intended as guides only, not as specifications.

* Industrial performance test

** The product is free of CFC and blowing agent is Pentane

*** Flammable

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# P-Fine

## Expandable Polystyrene (EPS) High Expansion

### Description

P-Fine is an expandable polystyrene (EPS) resin which contains pentane gas as foam blowing agent.

This grade exhibits outstanding expansion, insulation, moisture proofing and mechanical load bearing properties.

### Applications

Expanded Polystyrene Sheet.Shape molding

### Packaging

Baniar EPS are available in two packaging types:

- 25 kg woven polypropylene laminated double-layered Kraft sacks
- 1000 kg polypropylene bulk jumbo bags

### Storage

For Baniar EPS to keep all characteristics, we advise to store the containers indoor in a dry, cool and well-ventilated area in the ambient temperature preferably below 20 °C.

EPS should not be exposed to direct sunlight, heat, flame, rain, snow or frost.

Once the package is opened, the EPS should be used as soon as possible and not be left open for a long time.

### Cautions

Baniar EPS is not classified as a dangerous material but may produce flammable vapors. Thus:

- Only store in well-ventilated premises.
- No fire nor sparks in the vicinity.
- No smoking nor welding.

### Recycling

The wastes of Baniar EPS products could be re-used through mixing with virgin materials after proper grinding and cleaning.

### P-Fine Physical and Chemical Properties

Appearance: Ivory-white pearl-like sphere

| Property | Unit | Value† | Test Method |
|---|---|---|---|
| Bead Size ≥99% | mm | ≤0.3 | ASTM D1921 |
| Blowing Agent Content (Pentane) | wt% | ≥5.0 | ISO 2561 |
| Moisture Content | wt% | ≤0.80 | ASTM D6869 |
| Coating Agent Content | wt% | <0.30 | * |
| Residual Monomer | wt% | <0.30 | ISO 2561 |
| Pre-Expanded Density | g/l | ≥25 | ASTM D792 |
| Expanded Density | g/l | ≥25 | ASTM D1622 |
| Specific Gravity | - | 1.02-1.05 | ASTM D792 |
| Expansion Ratio | times | 50-95 | * |
| Fusion (Min.) | % | 65 | * |
| CFC Content | % | 0 | ** |
| K Value | - | > 60 | ASTM D5225 |
| Flammability | - | - | *** |

† Values are typical, and are intended as guides only, not as specifications.

* Industrial performance test

** The product is free of CFC and blowing agent is Pentane

*** Flammable

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