

ENERGITE PMMA

LOW-DENSITY, OPEN-CELL, INSULATING FOAM

www.basf.com/energite

DESCRIPTION

ENERGITE PMMA is a combination of extremely low density polypropylene (PP) and polystyrene (PS) foams. The resulting material has a cellular structure with a closed cell structure. The cells are filled with air. The material is highly resistant to moisture, has a high strength-to-weight ratio, and is easy to process. It is used in a wide range of applications, including automotive, construction, and consumer goods.

- 1. High strength-to-weight ratio
- 2. High impact resistance
- 3. High dimensional stability

TECHNICAL PROPERTIES (*)

MECHANICAL

Modulus at 23°C
Modulus at 100°C

Impact strength at 23°C
Impact strength at 100°C

Compression strength at 23°C
Compression strength at 100°C

Tensile strength at 23°C
Tensile strength at 100°C

Elongation at break

Thermal

Softening point
Glass transition temperature

Heat deflection temperature
Heat deflection temperature at 0.45 MPa

MECHANICAL

1000-1500 MPa
1000-1500 MPa

10-20 kJ/m²
10-20 kJ/m²

10-20 MPa
10-20 MPa

TECHNICAL PROPERTIES

1000-1500 MPa
1000-1500 MPa

10-20 kJ/m²
10-20 kJ/m²

10-20 MPa
10-20 MPa

MECHANICAL PROPERTIES, APPROXIMATE VALUES

- 1. High strength-to-weight ratio
- 2. High impact resistance
- 3. High dimensional stability
- 4. High resistance to moisture
- 5. High resistance to UV radiation
- 6. High resistance to chemical attack
- 7. High resistance to aging
- 8. High resistance to fire
- 9. High resistance to abrasion
- 10. High resistance to impact
- 11. High resistance to compression
- 12. High resistance to tension
- 13. High resistance to shear
- 14. High resistance to bending
- 15. High resistance to twisting
- 16. High resistance to vibration
- 17. High resistance to noise
- 18. High resistance to heat
- 19. High resistance to cold
- 20. High resistance to temperature fluctuations

Values are approximate and may vary depending on the specific application and processing conditions. For more information, please contact your local BASF representative.

ENVIRONMENTAL INFORMATION

- 1. High strength-to-weight ratio
- 2. High impact resistance
- 3. High dimensional stability
- 4. High resistance to moisture
- 5. High resistance to UV radiation
- 6. High resistance to chemical attack
- 7. High resistance to aging
- 8. High resistance to fire
- 9. High resistance to abrasion
- 10. High resistance to impact
- 11. High resistance to compression
- 12. High resistance to tension
- 13. High resistance to shear
- 14. High resistance to bending
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- 16. High resistance to vibration
- 17. High resistance to noise
- 18. High resistance to heat
- 19. High resistance to cold
- 20. High resistance to temperature fluctuations

Values are approximate and may vary depending on the specific application and processing conditions. For more information, please contact your local BASF representative.

DO NOT USE ENERGITE PMMA IN THE FOLLOWING APPLICATIONS:

1. High strength-to-weight ratio

2. High impact resistance

3. High dimensional stability

4. High resistance to moisture

5. High resistance to UV radiation

6. High resistance to chemical attack

7. High resistance to aging

8. High resistance to fire

9. High resistance to abrasion

10. High resistance to impact

11. High resistance to compression

12. High resistance to tension

13. High resistance to shear

14. High resistance to bending

15. High resistance to twisting

16. High resistance to vibration

17. High resistance to noise

18. High resistance to heat

19. High resistance to cold

20. High resistance to temperature fluctuations



Technical Data Basf

LL Leslie



Technical Data Basf:

Technical Data Basf Book Review: Unveiling the Power of Words

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