

EPS

Testing Services

Ensuring Quality and Performance



Wertec – your trusted R&D partner

Wertec gmbh is your trusted R&D partner for customized services and sustainable developments in EPS.

Our advanced methodologies and expert team are dedicated to ensuring the quality, performance, and safety of the EPS beads.



Why testing EPS Beads is important?

EPS beads testing serves a critical role to ensure their:

- Safety:** Guaranteeing the safety of end-users by verifying the structural integrity and fire performance of EPS beads.
- Compliance:** Meeting regulatory standards and certifications to uphold industry requirements and gain market access.
- Performance:** Enhancing the thermal conductivity and dimensional stability of EPS beads to optimize their performance in diverse applications.
- Sustainability:** Assessing environmental impact and recyclability to promote eco-friendly practices and meet sustainability goals.



Our Comprehensive Testing Services

1. Expanding Tests for Coated EPS:

- Evaluation of coated EPS beads with different densities to ensure consistent expansion and uniformity.
- Analysis of coating proportions for optimal performance and durability.

2. Molecular Weight Measurement:

- Precise measurement of molecular weight (MG) to assess bead quality and stability.

3. Graphite or Silica Distribution Analysis:

- Utilization of Scanning Electron Microscopy (SEM) to examine graphite distribution in expanded beads for enhanced fire resistance.

4. Compression Strength Testing:

- Determination of load-bearing capacity to assess structural integrity and resistance to external forces.

5. Flexural Strength/Bending Strength Testing:

- Evaluation of EPS bead flexibility and resistance to bending stresses to ensure durability in various applications.

6. Tensile Strength Testing:

- Measurement of tensile strength to assess the ability of EPS beads to withstand stretching forces and maintain structural integrity.

7. Thermal Conductivity Testing:

- Assessment of thermal insulation properties to optimize energy efficiency and performance in insulation applications.

8. Fire Behavior/Fire Performance Testing:

- Analysis of fire behavior and performance to ensure compliance with fire safety regulations and enhance product reliability.

9. Water Absorption Testing:

- Measurement of water absorption to evaluate the resistance of EPS beads to moisture and humidity for prolonged durability.





Contact us

to learn more about how we
can support your quality
assurance and performance
optimization goals!



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