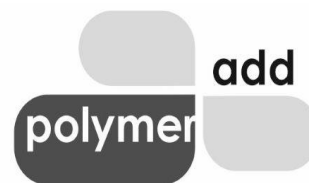


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ZINC GLYCEROLATE AND GLYCEROL MONOSTEARATE (GMS 90%) BLENDS

A blend of Zinc Glycerolate and Glycerol Monostearate 90% (GMS 90) as a nucleating agent is a promising combination for polymer processing and crystallization control. This blend leverages the nucleation-promoting properties of both components, enhancing the crystallization process in polymers like polypropylene, polyethylene, and polyesters. Below is an overview of the blend's properties, functionality, and potential applications:

1. **Zinc Glycerolate**
2. Improves nucleation efficiency.
3. Acts as a thermal stabilizer.
4. Offers antibacterial and antifungal properties.

Glycerol Monostearate 90% (GMS 90):

1. Acts as a lubricant and dispersant.
2. Enhances dispersion of other agents.
3. Improves compatibility with polymer matrices.

Blend Properties as a Nucleating Agent

Synergistic Effect

- The zinc component provides high thermal stability and robust nucleation efficiency.
- GMS 90 enhances dispersibility in the polymer matrix and offers a controlled crystallization mechanism.

Improved Crystallization

- The blend promotes fine and uniform spherulitic structures in semicrystalline polymers, leading to improved mechanical and optical properties.

Thermal Stability

- Zinc Glycerolate offers better heat resistance compared to organic nucleating agents alone.

Compatibility

- The presence of GMS 90 ensures good miscibility and even distribution in the polymer matrix.

Cost-Effectiveness

- Combining Zinc Glycerolate and GMS 90 can reduce the overall cost compared to using high-purity metallic nucleating agents alone.

Applications

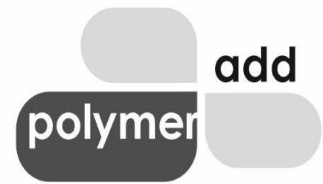
Polymer Processing	Enhances clarity, stiffness, and impact resistance in polypropylene. Improves processing speeds by reducing crystallization time. Ensures dimensional stability and reduced warpage in injection-molded parts.
Packaging	Increases transparency and gloss in food and pharmaceutical packaging materials.
Automotive	Improves stiffness and heat resistance in polypropylene-based automotive parts.

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3D Printing	Ensures uniform crystallization in polymer filaments for enhanced print quality.
Dosage	0.2% and 0.8%, depending on the desired crystallization enhancement.
Processing Temperature	Usually ranging between 180°C and 240°C.

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