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Gel All® E-200

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Gel All® E-200

RIKA International Limited, a subsidiary of New Japan Chemical Co Ltd, offers **Gel All E-200**, an acetal-sorbitol based clarifying agent for polypropylene. This innovative additive has been developed in order to expand the RiKA range of acetal sorbitol based nucleating agents. RiKA nucleators already impart excellent optical and mechanical properties such as superior clarity, higher flexural modulus and easier moulding. Additionally, **Gel All E-200** provides enhanced dimensional stability and excellent organoleptic properties to the moulded

parts. These are consequences of its increased stability during the extrusion and moulding processes.

Gel All E-200 has a relatively low melting point in comparison with methyl and dimethyl dibenzylidene sorbitols (MDBS and DMDBS). This characteristic allows compounding and any subsequent processing to be performed at a lower temperature whilst the polymer and the clarifier are both in the molten phase, ensuring excellent dispersion and subsequent clarity.

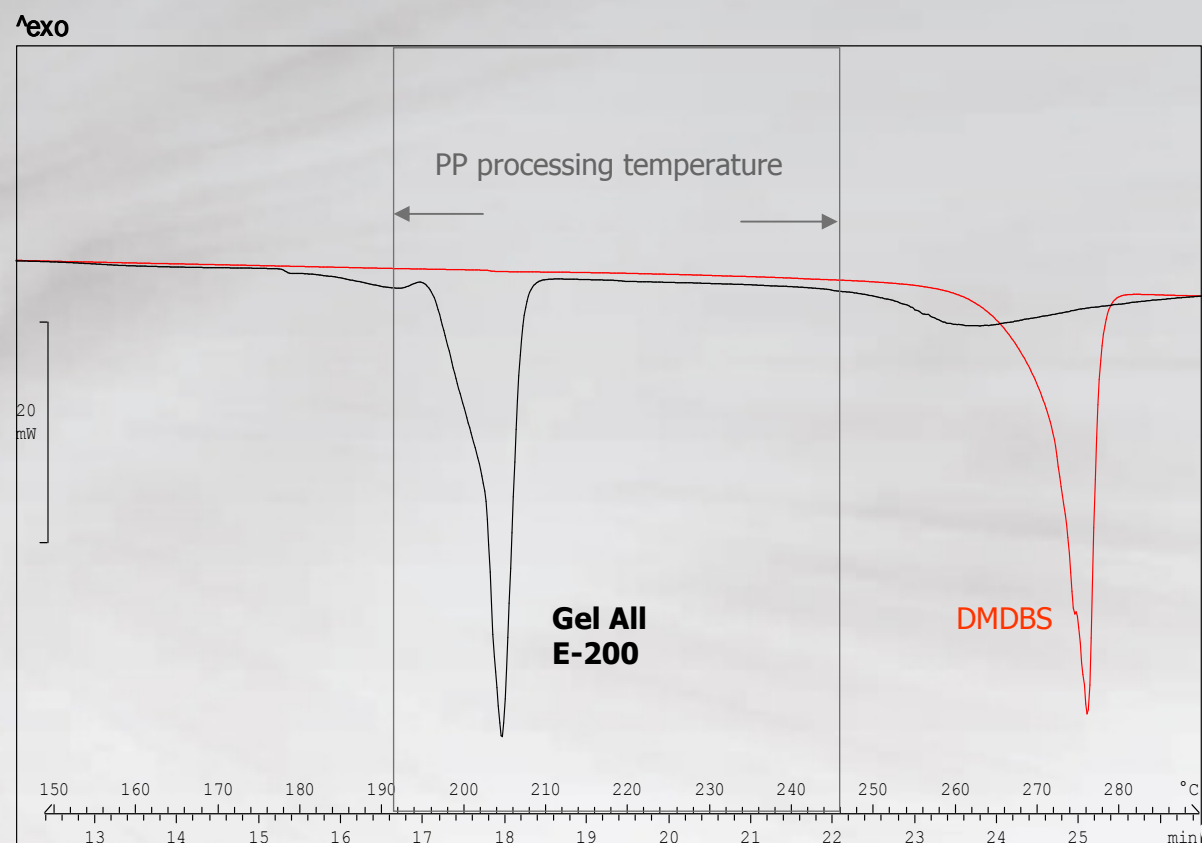


Figure 1. DSC Thermogram

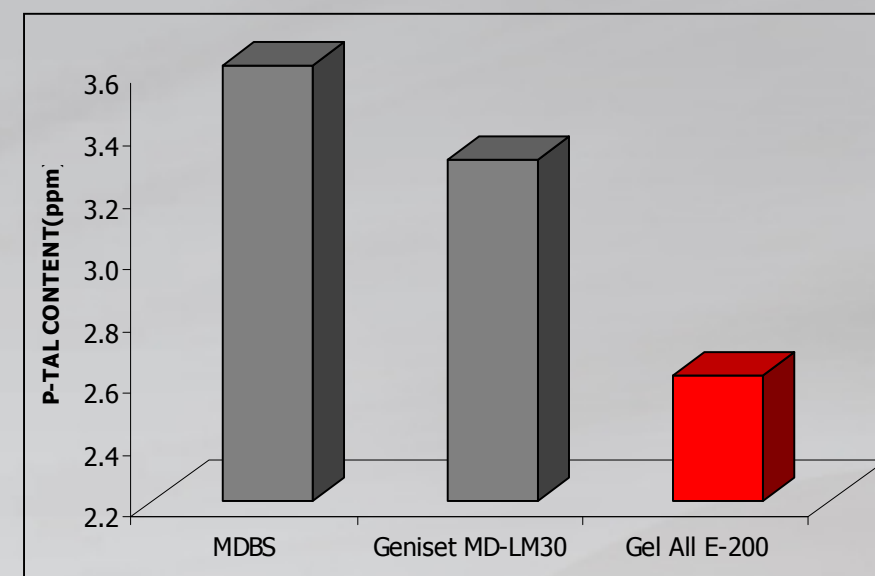


Figure 2. Free Aldehyde in Polypropylene

When using acetal sorbitol nucleating agents, the elution of free aldehyde is the major cause of odour and taste conferred to the moulded articles. The superior organoleptic properties imparted by **Gel All E-200** result in the significant reduction of free aldehyde compared to any MDBS based products.

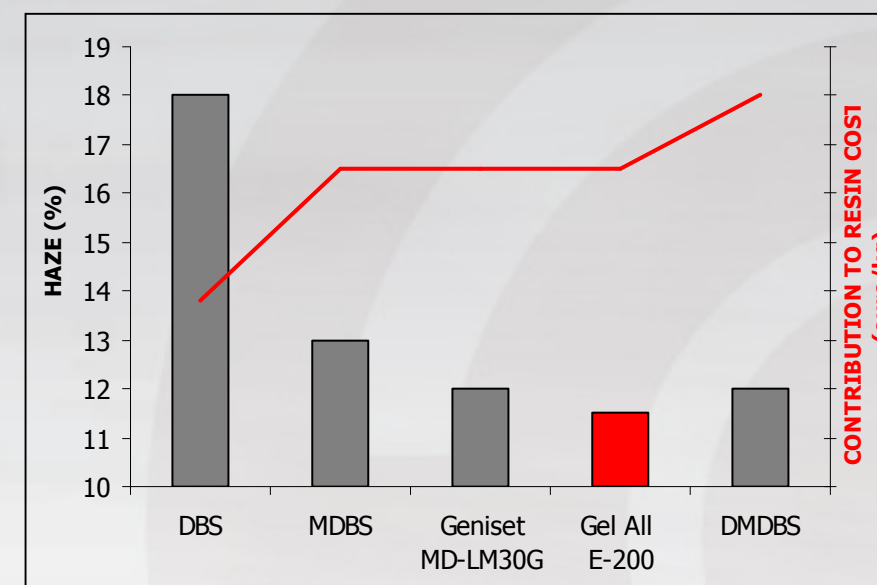


Figure 3. Haze & Contribution

Gel All E-200 achieves excellent organoleptic and optical properties in a variety of systems including homopolymers and random copolymers.

Gel All E-200 is registered by the Food and Drug Administration (FDA) and all major European approval organizations for use in polyolefins for food contact applications.