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RiKA International Limited, a subsidiary of New Japan Chemical Co Ltd (NJC), offers a wide product portfolio of acetal sorbitol clarifiers, developed over the years through cutting edge research and technology.

Osaka based NJC are recognised globally as the inventors of acetal sorbitol chemistry dating back to the early 1960's. Common characteristics imparted by these products in random and homo polypropylene are excellent clarity, high stiffness and faster crystallization rates which lead to shorter cycle times and therefore improved productivity. Gloss and surface smoothness are also highly improved, making them particularly attractive for thin walled injection moulding applications.

**Geniset D
(Dibenzylidene sorbitol)**

Geniset D (DBS), was originally used as a gelling agent in different applications. It was first introduced 30 years ago to the polypropylene industry as the first generation of clarifiers. Geniset D is an efficient clarifier with excellent organoleptic properties, which also enhances the physical properties of the final application. In addition, it significantly improves the crystallization temperatures reducing therefore, cycle times and increasing productivity.

Its recommended dosage for all polypropylene grades is 2000ppm.

Today, it is widely used as an economical solution in thin walled injection moulded parts.

**Geniset D-LM
(Dibenzylidene sorbitol)**

Geniset D-LM, is an improved version of dibenzylidene sorbitol, offering efficient clarity coupled with outstanding organoleptic properties. In addition, Geniset D-LM utilises patented low melt technology allowing easier incorporation into the molten state during compounding. Increased crystallization temperatures also enable shorter moulding cycles. Being also a gelling agent, its lower melting point makes it the perfect choice for an easier implementation.

Geniset D-LM is used in concentrations of 2000ppm in both polypropylene homo and random copolymer.

**Geniset MD
(Methyldibenzylidene sorbitol)**

Geniset MD (MDBS) is an extremely effective nucleator which imparts excellent clarity and improved gloss to homopolymer and random copolymer polypropylene. Physical properties such as impact strength and stiffness are also increased as is the crystallinity temperature enabling faster cycling during manufacture.

Dosing for **Geniset MD** in all polypropylene grades is normally 2000 ppm.

Geniset MD is still the preferred clarifier for polypropylene in pharmaceutical and medical applications such as syringes. It is also used successfully in the production of a wide range of thin walled injection moulding including storage boxes, CD/DVD jewel cases and food containers.

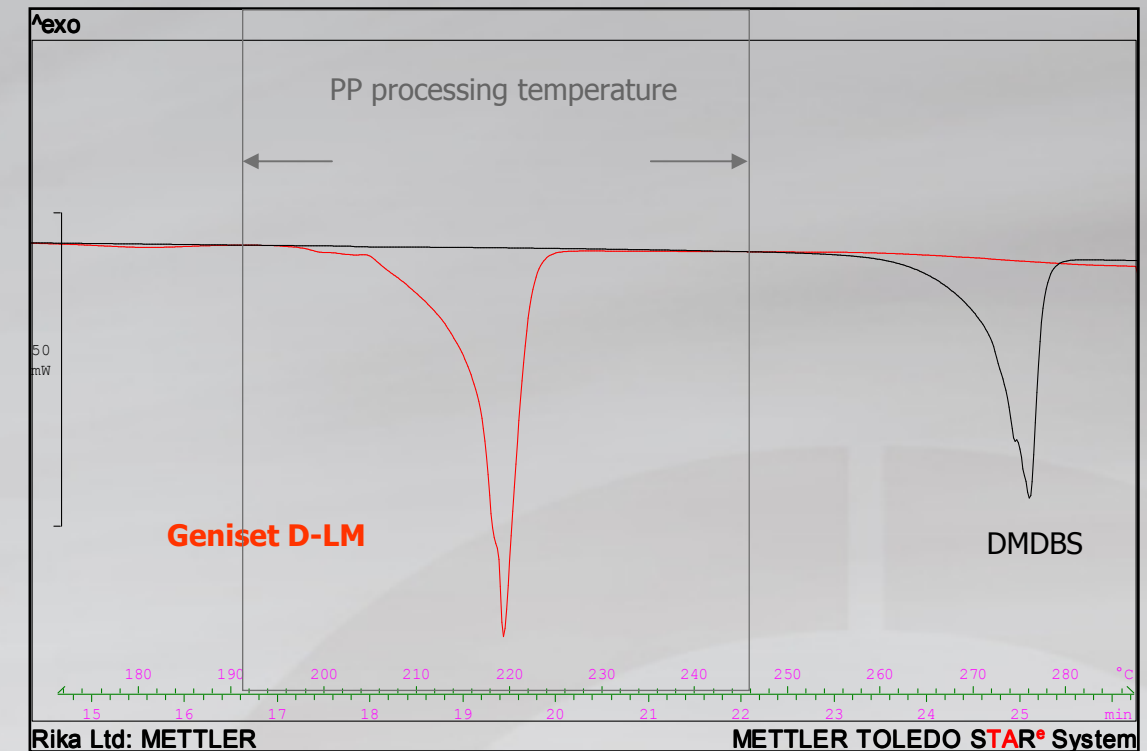


Figure 1. DSC Thermogram

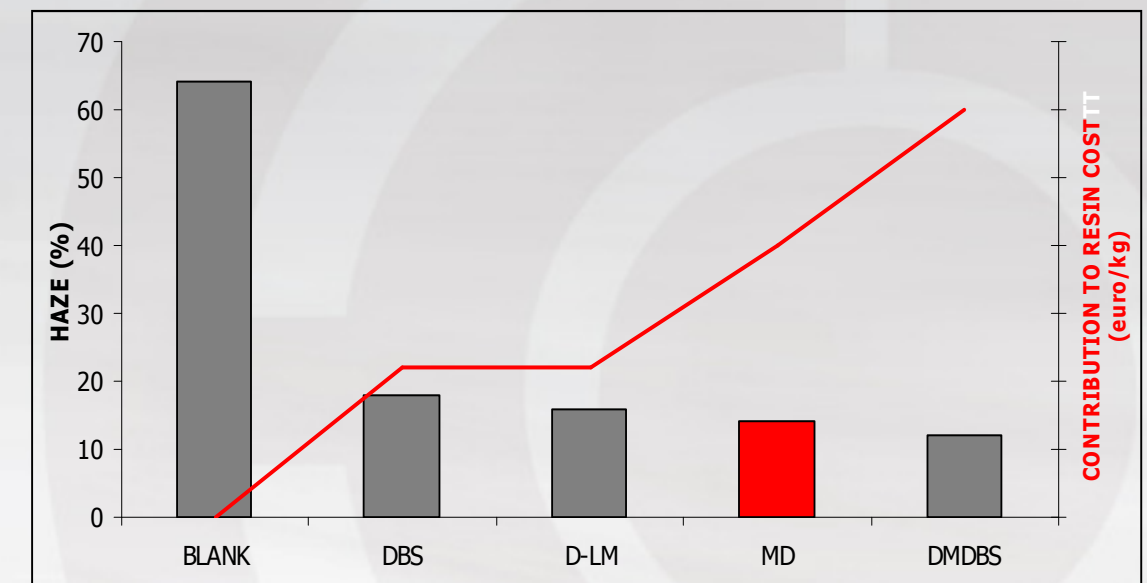


Figure 2. Haze & Contribution