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RIKACLEAR®
RIKAFAST®

RIKAFAST® P1

GENISET®
GEL ALL®

RIKACLEAR®
RIKAFAST®

RIKA
INTERNATIONAL LIMITED





RiKAFAST® P1

RiKA International Limited, a subsidiary of New Japan Chemical Co Ltd (NJC), presents the newest addition to the RiKAFAST range, the highly active alternative to DMDBS, **RiKAFAST P1**.

Based on proprietary technology **RiKAFAST P1** furthers the improvements introduced by RiKAFAST AC, at reduced loadings. This new product shows excellent and consistent performance across a wide range of melt flow rate (MFR) polypropylene.

Recent developments in the industry have led to products expected to perform in the most demanding of environments, e.g., high melt grades for an easier and consistent flow.

In Figures 1 & 2, **RiKAFAST P1** shows excellent clarity better or comparable to that of DMDBS from thin wall to thicker sections across several MFR grades of random copolymer polypropylene.

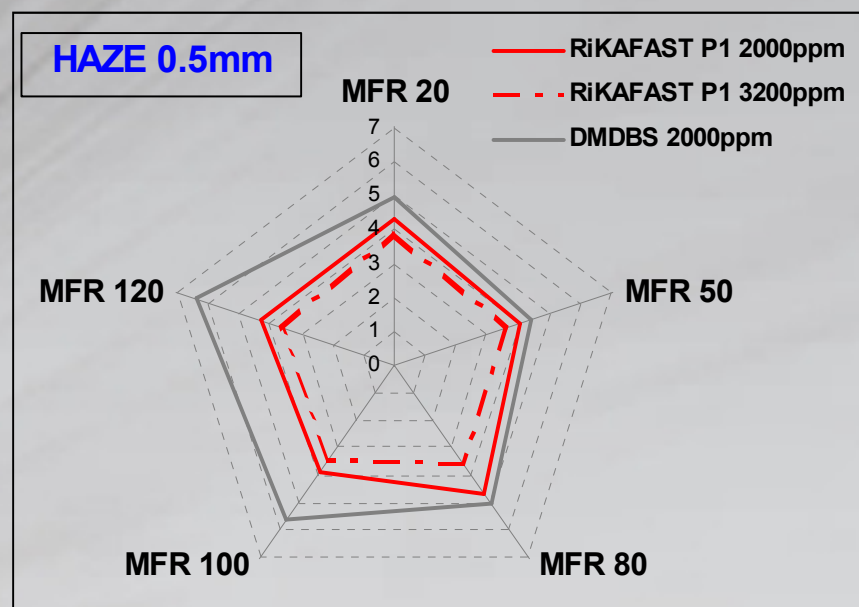


Figure 1. Haze levels for MFR 20 to 120 g/10min in RACO PP (0.5mm)

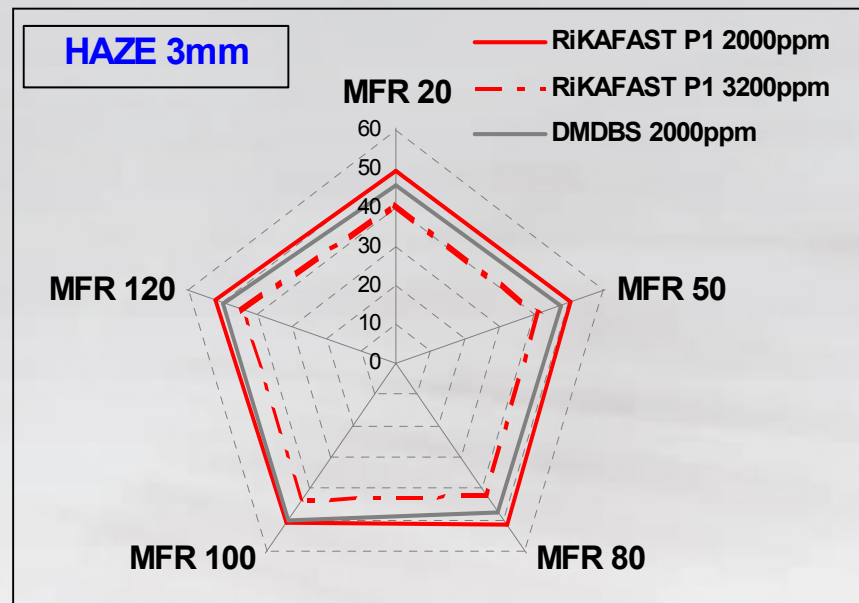


Figure 2. Haze levels for MFR 20 to 120 g/10min in RACO PP (3mm)

It is widely known that all acetal sorbitol clarifiers have a propensity to exude free aldehyde into the polypropylene resin which can cause taste and odour issues. The research teams of NJC and RiKA have developed a process that minimises free aldehyde during processing and moulding. Typical free aldehyde levels in moulded polypropylene resin nucleated with **RiKAFAST P1** are significantly lower than DMDBS systems.

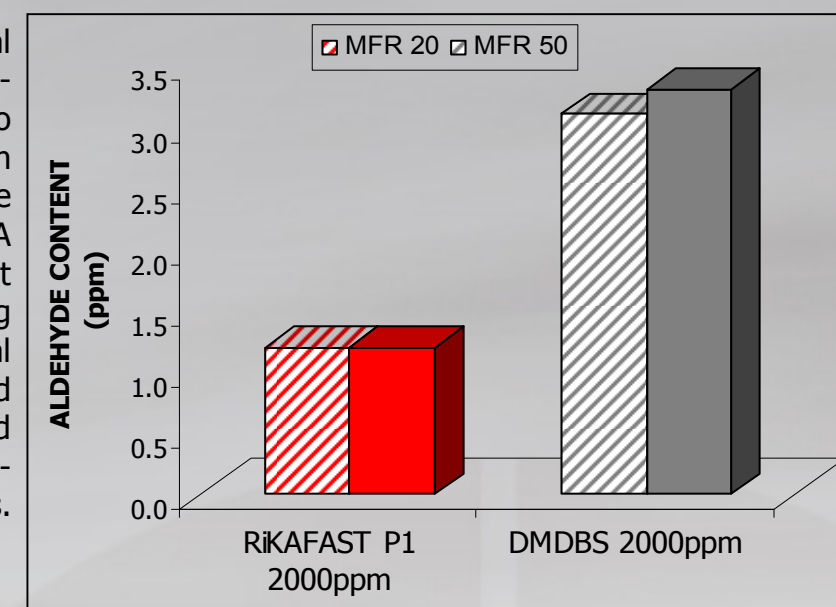


Figure 3. Free Aldehyde in Polypropylene

RiKAFAST P1 is a versatile clarifier for polypropylene that also retains its mechanical performance such as the flexural modulus for any melt flow rate PP grades. In high melt grades, by achieving better filling characteristics, the warpage is significantly reduced and the shrinkage is more uniform. Figure 4 clearly illustrates that the use of **RiKAFAST P1** shows significant advantages regarding warpage, being its Dimensional Isotropy ratio (MD/TD) closest to the target.

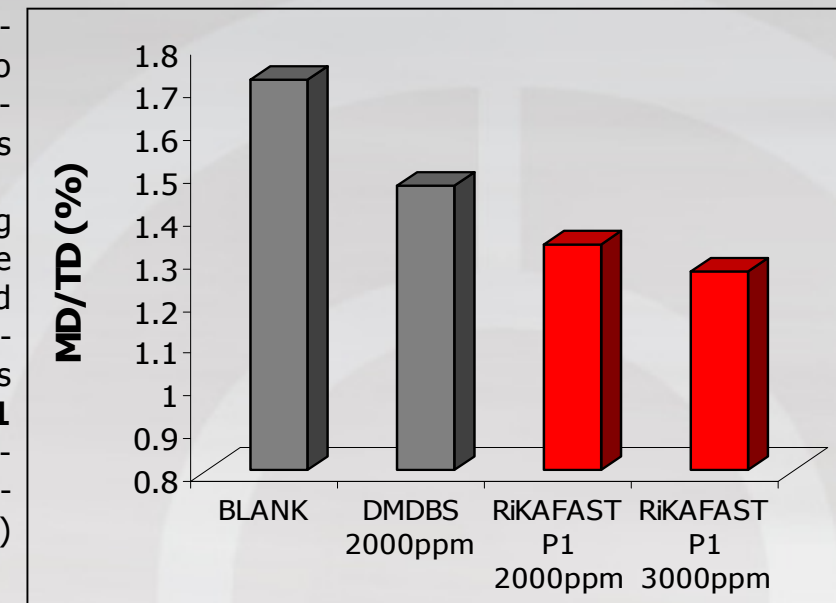


Figure 4. Dimensional Isotropy Index in RACO PP

RiKAFAST P1 has been approved by EFSA. In addition, the extended regulatory FDA approvals (conditions of use A through H for all foodstuffs up to a maximum concentration of 0.32% by weight of the polymer) make this product ideal for all types of processes including injection and blow moulding. With **RiKAFAST P1** affordable clear polypropylene is finally available.