

Introduction of new polycarbonate diols 「DURANOL™」
-Waterborne, Bio-based, High solid-
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Polycarbonate diol(PCD) is the high-performance polymer diol for polyurethanes. Due to their flexibility and high durability, DURANOL™ (the liquid type PCD developed by Asahi Kasei) is used for high-end applications such as synthetic leather, soft feel paint and so on. In this presentation, we will introduce new unique PCDs.

AKN11 is a special PCD for waterborne coatings. Due to its amphiphilic properties, it can be easily dispersed in water to form stable emulsions. As a result, it can help reduce VOCs when switching from solventborne to waterborne coatings and improve the stability of conventional waterborne coatings.

BP002 is a high bio-based PCD. In addition, BP002 has higher cohesion than conventional PCDs, resulting in polyurethanes with excellent durability. It can therefore not only be used as a raw material for high biomass product design, but also contributes to longer product life and improved stain resistance.

FL012 is a low viscosity PCD and polyurethanes using it can combine high flexibility and durability. FL012 enable to reduce or eliminate the use of solvents in the urethane synthesis process. In addition, high durability of polyurethane products can be expected even in low temperature environments.