Intoroduction of new polycarbonate diols 「DURANOLTM]

・Super low viscosity PCDX-208

・Bio-based PCDX-164

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Polycarbonatediol(PCD) is the high-performance polymer diol for polyurethanes. In particular, the Liquid type PCD (DURANOL^{TM}) developed by Asahi Kasei has excellent flexibility and used for high-end applications such as synthetic leather for automotive, soft feel paint for automotive interior parts, mobile phone coatings and so on. In recent years, the realization of a sustainable society has become an important issue. Therefore, in this presentation, we introduce two new PCDs that we have developed to help solve this problem.

One of our new developments is super low viscosity PCD, PCDX-208. PCDX-208 not only shows low viscosity (1/3 the viscosity of conventional products), but the polyurethanes using it has softness (especially low tensile stress at -20℃), high chemical resistance, and heat resistance. With these good properties, PCDX-208 makes solvent reduction or solvent free for PU synthesis process.

The other one is bio-based PCD, PCDX-164. The bio content of PCDX-164 is about 74%, and it can contribute to increase the bio content of polyurethane. In addition, its polyurethanes (PUD and 2KPU) have excellent chemical and stain resistance. PCDX-164 is suitable for car leather sheet coatings & car interior coatings.