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Starting to Provide samples of BioPTMG, which Uses Plant-derived Raw Materials

Mitsubishi Chemical Corporation

Mitsubishi Chemical Corporation (MCC; Head office: Chiyoda-ku, Tokyo; President: Masayuki Waga) newly developed PTMG (Poly (tetramethylene ether) glycol) that uses plant-derived raw materials (BioPTMG). MCC has commenced the provision of samples.

PTMG has features including rebound resilience and wear resistance, it is used as a material to add flexibility, mainly to polyurethane elastic fiber (spandex). This time around, MCC developed and has started providing BioPTMG.

BioPTMG offers superior rebound resilience, wear resistance, hydrolysis resistance, and flexibility in low temperatures, which is equivalent to the performance of PTMG made from petrochemical-based raw materials and offers superior. In light of this, it is possible to use BioPTMG in a wide range of products, from interior furnishings and fashion to industrial materials.

[Examples of application]

- Polyurethane elastic fiber (spandex): Apparel, including outer, inner and sportswear
- Polyurethane elastomer: Artificial/synthetic leather, sports shoes materials, hoses, films, etc.
- Polyester elastomer: Electric and electronic parts, machine parts, etc.

MCC is responding to the needs of customers by not only offering the grades* developed this time around, but also through the development and expansion of more grades. In addition, MCC aims to contribute to the achievement of SDGs by accelerating the R&D of plant-derived materials, including BioPTMG, and providing solutions for a sustainable society.

Logo of BioPTMG

※ Four grades of molecular weight: 650, 1.000, 2.000 and 3.000

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