

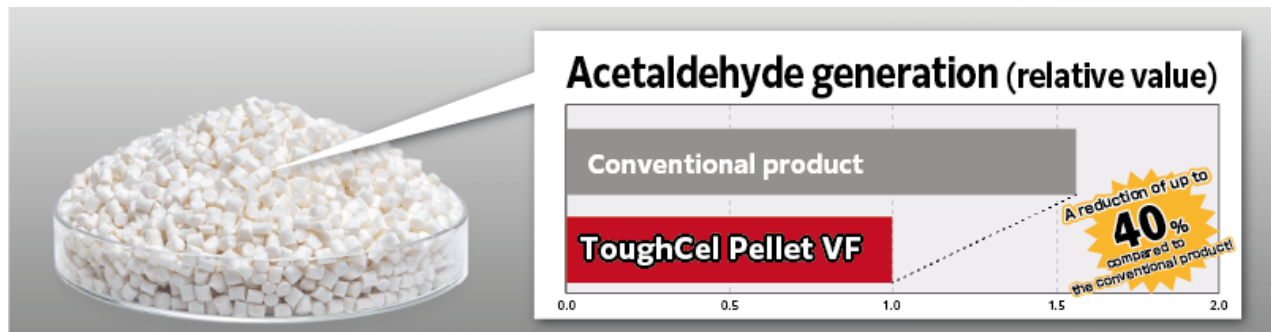
Oji Holdings Expands Applications for ToughCel Series of Cellulose Resin Composite Pellets — ToughCel pellet VF with low VOC emissions—

Oji Holdings Corporation (President: Hiroyuki Isono; Head Office: Chuo-ku, Tokyo) announces that it has recently developed cellulose resin composite pellets for injection molding utilizing wood-derived cellulose as reinforcing fibers and featuring low VOC¹ emissions.

The Oji Group promotes the development of new materials for sound forest development and for the utilization of forest resources. This initiative includes the research and development of ToughCel² resin composite pellets that utilize wood-derived cellulose as reinforcing fibers, enabling de-plasticization and the reduction of plastic.

By carefully selecting wood pulp materials, the developed product can reduce the acetaldehyde emissions during injection molding by up to 40%.³ This expands the possibilities for applications, such as large interior materials for automobiles, which were previously limited due to VOC emissions. Furthermore, it has been discovered that the developed product can improve MFR⁴, a crucial physical characteristic in injection molding.

Sample work will be carried out under the ToughCel Pellet VF name, aiming to commercialize the product in the future. The Oji Group will showcase this development at its booth at the Automotive Engineering Exposition 2024 NAGOYA to be held in Aichi Sky Expo (Aichi International Exhibition Center) from July 17 to 19.



*1 Volatile organic compounds

*2 Trademark application pending

*3 Assessment conducted by the Oji Group in compliance with TSM 0508 G

*4 The flow index has been enhanced by up to 18 times the conventional figures (assessment conducted by the Oji Group at a temperature of 230 °C and a load of 10 kg).

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