

DELIZIO COFFEE CAPSULES

DELICA AG

SABIC® CERTIFIED RENEWABLE POLYMERS

The bio-feedstock based “second generation” SABIC® PP polymer is part of SABIC’s TRUCIRCLE™ portfolio of circular products and services.

CHALLENGE

Reducing the environmental impact and fossil-based resource use; full recyclability and compliance with the stringent food packaging industry standards without affecting the quality of coffee capsules.

SABIC SOLUTION

SABIC’s renewable phthalate-free PP material is produced from tall oil, an animal-free and palm oil-free feedstock which is not in direct competition with human food production sources. The tall oil is a waste product from the wood pulping process in the paper industry. SABIC’s certified renewable PP resins offer the same high quality and purity as virgin PP made from fossil fuel.

SUSTAINABILITY CONTRIBUTION

A cradle-to-gate lifecycle analysis has confirmed the sustainability value or contribution of SABIC’s certified renewable materials. From sourcing the raw feedstock to producing the polymers, each ton of the company’s bio-based PP and PE resin reduces CO2 emissions by an average of 4 kg as compared to fossil-based virgin alternatives, while at the same time cutting fossil depletion by up to 80 %. The study was carried out according to ISO 14040 and has been validated in a critical third-party review. “A life cycle study conducted by Carbotech has shown that we can significantly reduce the environmental footprint of our Delizio capsules by replacing our former fossil-based main component with a renewable polypropylene material based on tall oil,” says Ralf van den Bragt, Head of Business Unit Coffee at Delica AG. “With a certified renewable content of at least 65%, the environmental impact is reduced by approx. 40% per capsule.



CERTIFIED RENEWABLE POLYMER



HIGH PURITY



REGULATORY COMPLIANCE



EASY PROCESSABILITY



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