

## CONFIRMATION OF BIODEGRADABILITY OF TAPIOPLAST™ ACCORDING TO ISO 14855-1

TAPIOPLAST™ has been experimentally evaluated to be a biodegradable material according to ISO 14855-1 (Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions).

The properties of the evaluated TAPIOPLAST™ resins are listed below.

Parameter	Specification	Unit	Method
Pellet size	< 5	mm	Caliper gauge
Density	< 1.6	g/cm <sup>3</sup>	ASTM D792
Bulk density	800-900	kg/m <sup>3</sup>	ASTM D792
Moisture	< 4.0	%	ISO 1666:1966 (E)

The biodegradation experimental results (ISO 14855-1) of TAPIOPLAST™ are described below.

The degrees of biodegradation of TAPIOPLAST™ and reference material (microcrystalline cellulose) under the controlled composting conditions (ISO 14855-1) at 58 ± 2 °C were determined for 60 days. The test was conducted in three replicates. The biodegradation percentage of the test sample was calculated from the cumulative amounts of carbon dioxide evolved. It was found that the biodegradation percentage of cellulose was 91.85% ± 1.65%. Under the same conditions, TAPIOPLAST™ has a biodegradation percentage of > 99.99% ± 3.09%.

Yours sincerely,



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