Polymers

Omya Smartfill® MB165-CBN

Exploring new ways within Polylactic Acid (PLA) Nonwovens



THINKING OF TOMORROW

Tailor-made solution specifically designed for PLA nonwovens

Nonwovens applications are known to have very demanding requirements from the processing aspects and the polymer compositions. It is therefore essential to develop a tailor-made solution to fulfill these specific requirements.

Extensive technical trials and evaluation with our collaboration partners ensures that the solution meets the industry standards. While supporting our partners during this implementation and optimization phase, they count on the advice from our dedicated and experienced technical service.

Omya Smartfill MB165 - CBN, a new innovative masterbatch solution, containing a tailor-made calcium carbonate of high purity and with a unique surface treatment specifically designed for PLA nonwovens. Omya Smartfill MB165 - CBN allows manufacturers to substantially reduce costs, improve processing and the quality of the nonwoven fabrics.

Collaboration Partners

stfi SÄCHSISCHES TEXTIL FORSCHUNGS INSTITUT e.V.

Ceti TRANSFORMATIVE TEXTILES

Carbon footprint of $CaCO_3$

300 kg of CO_2 equivalents

emitted per ton of natural ground calcium carbonate[1)] produced

[1)] Typical grade for plastic applications SOURCE: CCA LCI coated, EU28-Turkey+Norway energy mix.

Benefits

- ✓ Sustainable and renewable raw material
- ✓ Substantial cost savings
- ✓ Improved mechanical properties
- ✓ Natural cotton like haptics and softness
- ✓ Higher whiteness and opacity
- ✓ Improved stability in PLA spinnability
- ✓ Reduced static charge during processing and on the final fabric
- ✓ Proven processability on industrial nonwoven lines
- ✓ Food contact approved
- ✓ No skin irritation or sensitization

Omya Smartfill is a registered trademark of Omya AG.

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