

CALCIPLAST® for breathable films

Product Properties

The new generation hydrophobic industrial mineral **CALCIPLAST 2 HS** stands for a calcium carbonate combining high whiteness with a small particle size and a sharp top cut. It fits into the polymer matrix exactly like 2 µm mineral fillers. Due to its lowered humidity of 0,1* % it is suited for all kind of application areas where standard fillers do cause trouble due to their higher humidity of about 0,2 %. Due to its thermal stability to above 270 °C, **CALCIPLAST 2 HS** can be successfully applied especially in PE- and PP- foils and breathable films with significant improvement of yield strength and printability.

STRONG PRINTABLE BREATHABLE FILMS

Key Benefits at a glance

- Extra fine particle-sized calcium carbonate
- Hydrophobic
- Low humidity
- Improved rheology behavior
- High flow spread
- Faster processing and lower cost
- No side reactions due to surface water



* Measured at production

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Introduction

A lot of new polymer-based systems for applications in different types of foils, glues and sealants have been developed to be much faster reacting than in the past. Standard calcium carbonates lead to side-reactions due to their amount of about 0,2 % humidity which reacts with the polymer or with additives reducing the shelf life of such products. To become a real alternative in such applications **CALCIPLAST 2 HS** was developed having a humidity of only 0,1* %. The resulting high flow spread leads to faster processing and cost saving. **CALCIPLAST 2 HS** is thermal stable to above 270 °C and therefore is especially suitable for PE- and PP-foils and breathable films with significant improvement of the yield strength and printability of these materials.

Chemical and Physical Data

Composition:	Fine particle-sized natural calcium carbonate
Activity:	100 % active by weight
Color:	White
Form:	Fine powder
Average particle size:	2 µm
Whiteness, Ry:	95
Sieve Residue > 32 µm:	< 0,01 %
Residual moisture content:	0,1* %
Bulk Density:	500 kg/m ³

Application examples

Breathable films:

- Improvement of strength
- Enhanced printability

PE- and PP-foils:

- Improvement of mechanical properties
- Eco-friendly PE-products



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