

CALCIPLAST for breathable films

Product Properties:

The new generation hydrophobic filler ***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:

- Finely milled natural calcium carbonate
- Hydrophobic filler
- Lowered humidity
- Improved rheology behavior
- High flow spread
- Faster processing lowers cost
- No side reactions due to surface water



*-Measured at production.

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CALCIPLAST for breathable films

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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 carbonate fillers lead to side-reactions due to their amount of about 0,2 % humidity which reacts with functional groups of the polymers or with additives reducing the shelf life of such products. To become a real alternative to standard fillers 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-foils and PP-foils and breathable films with significant improvement of the yield strength and printability of these materials.

Chemical and Physical Data:

Composition:	Finely milled 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



Picture: samuel-zeller-427883-unsplash

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