



enhanced
by Omya

Fibers & Nonwovens

Omya Calcium Carbonate for PP
Spunmelt and Dry-Laid Nonwovens



THINKING OF TOMORROW



About Omya

Omya is a leading global producer of industrial minerals – mainly mineral modifiers and pigments derived from Calcium Carbonate and dolomite – and a worldwide distributor of specialty chemicals. Founded in 1884 in Switzerland, Omya has a global presence extending to more than 175 locations in over 50 countries with 8,000 employees.

The company provides a wealth of product solutions that contribute to our customers' competitiveness and productivity in multiple industries such as Technical Polymers, Construction, Printing & Writing, Packaging, Food, Personal & Home Care, Pharmaceuticals, Agriculture, Forestry, Water and Energy.

Adding Customized Value to the Polymer Industry

For our customers, we are continuously developing and implementing innovative solutions to enhance processes and improve properties of numerous polymer applications.

Hence, Omya is now presenting a tailor-made Calcium Carbonate of high purity and with a unique surface treatment, specifically designed to add value within fibers and non-wovens production.

Omyafiber® allows manufacturers to substantially reduce raw material costs and improve the quality of their fibers and nonwoven fabrics.

Advantages in Performance, Processing & Economics with Omyafiber® 800

Omyafiber® 800 is added to PP nonwoven extrusion in form of a masterbatch. Due to its high-purity and unique surface-treatment, it provides significant advantages in both, masterbatch compounding and nonwoven production.

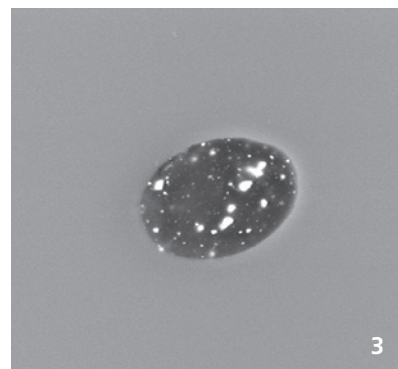
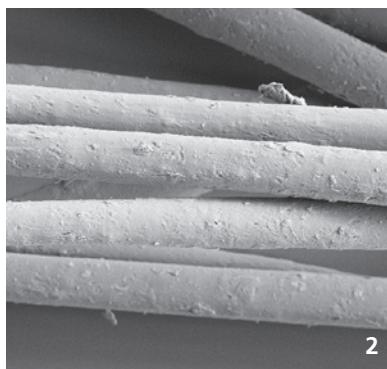
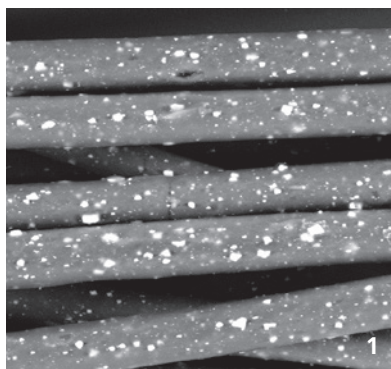


Key benefits for nonwoven manufacturers

- *Substantial raw material savings*
- *Natural cotton like haptics and softness of spunlace fabrics*
- *Improved tensile strength and elongation of high and low grammage fabrics*
- *Higher whiteness with Omyafiber® allows savings on TiO₂*
- *Reduced static charge during processing and on the final fabric*



PP multifilament fibers containing Omyafiber®



Addition of 10% Omyafiber®: 1 Mineral Dispersion / 2 Fiber Surface / 3 Fiber Cross Section

Key benefits for masterbatch compounding

- *Marble based, fine ground calcium carbonate of high purity and whiteness*
- *Tailored particle size and particle distribution providing excellent dispersion*
- *New proprietary surface treatment for enhanced processability and optimized polymer compatibility*



How to incorporate Omyafiber® 800

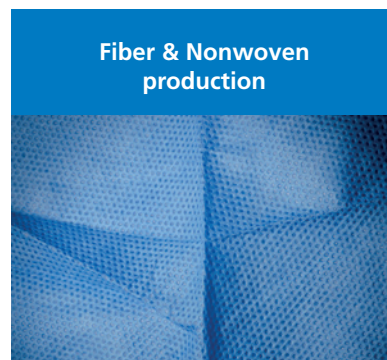


100% Omyafiber®



Masterbatch
Compounding

70% Omyafiber®
in PP masterbatch



Fiber & Nonwoven
production

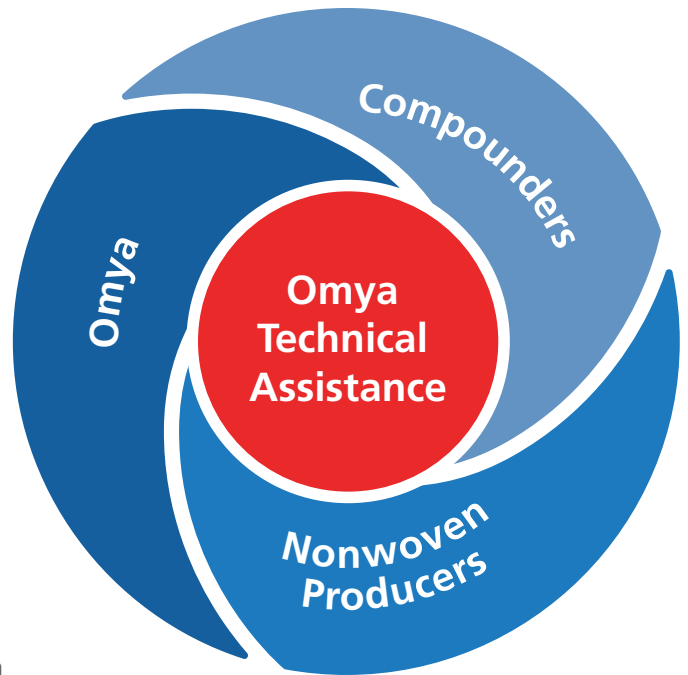
Virgin PP plus
Omyafiber® masterbatch

| Typical formulation for spunbond nonwoven fabric | % |
|--|----|
| Polypropylene, PP homopolymer MFR = 25 - 35 (230°C, 2.16 kg) | 84 |
| Color Masterbatch (optional) | 2 |
| Omyafiber® 800 Masterbatch (70%) PP based, Filter pressure value (FPV) at 25 µm very low | 14 |

Omya Technical Assistance

Competent Advice on
Implementation
& Cost Optimization

With our state-of-the-art technical center and sound technical expertise, Omya is able to provide competent Technical Services to all players along the value chain. Our experts assist you in every step of your manufacturing process, from application-related and analytic tests in our laboratories to hands-on support in your own production site.



Household
Filtration
Personal Care
Medical
Agro & Geotextiles
Automotive
Sanitary & Hygiene





We partner with
the entire value
chain to differ-
entiate end
products.



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OMYA PIGMENTS**