

**Go green and  
save money!**

**Use Filolen®**  
Ground Calcium Carbonate (GCC) Masterbatches

### For PP, PE and PET Woven Applications:

PE and PP Woven Sacks and Flexible Intermediate Bulk Containers (Big Bags, Super Sacks etc)

PP and PET Strapping Tape

PP Woven Geotextiles

PP High Tenacity Multifilaments, String and Twine

PP Carpet Yarns

### End Product Benefits

- Savings in polymer cost
- Anti-fibrillation or anti-splitting effect Reduced PP splitting leads to tapes of higher tenacity  
Down gauging possible without loss of properties
- Increased stiffness
- No need for mechanical delustering by up to 5% Filolen addition
- Woven cloth stability The GCC particles protrude slightly from the surface of the tapes  
increasing friction between them
- No negative effect on light ageing resistance of PE, PP and PET
- Improves ink receptivity. Easier to print with water based inks
- Increased opacity. Savings in white pigments
- Easier welding (improved heat sealability) due to increased thermal transfer
- Soft touch, velvet-handle effect Applies mainly to products containing finer calcium carbonate
- Antiblocking effect
- Antislip effect. Improved stacking stability of bags. Products containing coarser grades of  
GCC offer good antislip properties at low addition rates

### Processing Benefits

- Increased extruder throughput
- Faster heating in the extruder
- Improved bubble stability and faster cooling
- Reduced static build up.

### Environmental Benefits:

- Reduced carbon footprint
- Lower energy requirements due to the high thermal conductivity of GCC

### What Makes Filolen® Special:

- Exceptionally low abrasivity for longer service life of screws, barrels, tape slitting knives and tape guides. Surface coated calcium carbonate contained is graded 2.5 on the Mohs scale.
- Superb dispersion quality for trouble free processing and best mechanical properties.
- Excellent whiteness due to the GCC used
- High purity. Extremely low Fe<sub>2</sub>O<sub>3</sub> content (0.02% max in the GCC)

## Range of Filolen® Masterbatches for PE, PP and PET Woven Applications

### FX-1750

The top performer of Filolen products Aims at the most demanding applications

Contains 75% super fine coated GCC (median particle size 1.9µm) in a specially selected ethylene copolymer carrier.

Maximum improvement in mechanical properties, impact and tear strength, and flexibility due both to the small particle size of calcium carbonate and the polymer used

Polymer carrier offers reduced dusting and splitting

Best fabric softness and smoothness, due to carrier polymer and GCC used

Exceptional whiteness

Little or no weight increase due to the GCC small particle size

Compatible with PE, PP and PET

Highest possible usage in all applications due to the super fine GCC, the special polymer carrier and the excellent dispersion

Usage 5 - 50% depending on film thickness and mechanical properties required.

### FX-0800

Contains 80% fine coated GCC (median particle size 3.9µm) in a specially selected ethylene copolymer carrier.

Polymer carrier offers reduced dusting and splitting

Fabric softness and smoothness are improved both by calcium carbonate and carrier polymer

Compatible with PE, PP and PET

Usage 5 - 30% depending on film thickness and mechanical properties required.

### FP-0800

Contains 80% fine coated GCC (median particle size 3.9µm) in a polypropylene copolymer carrier.

Higher stiffness of final product

Recommended especially for PP applications

Usage 5 - 20%

### FL-0800

Contains 80% fine coated GCC (median particle size 3.9µm) in LLDPE.

Recommended for PE and PP applications

Usage 2 - 15%

### FE-0800

Contains 80% fine coated GCC (median particle size 3.9µm) in LDPE.

For maximum economy Good flexibility

Recommended for PE and PP applications

Usage 2 - 10%

### FE-3700

Contains 70% coarse GCC (D50 6.5µm) in LDPE.

Suitable for PE and PP

Offers anti-slip properties at very low addition level (1 - 3%) due to high coefficient of friction



QUALITY MANAGEMENT  
EN ISO 9001: 2015  
Reg. No.: 078232 QM  
OCCUPATIONAL HEALTH  
AND SAFETY MANAGEMENT  
OHSAS 18001:2007  
ELOT EN 1801:2008  
Reg. No.: 078232 OH

