

VirdiDM™ Premium

VirdiDM™ Premium is a highly concentrated moisture absorber masterbatch created for the processes which use regrinds and re-granulates.

VirdiDM™ Premium is suitable for use in thin film applications

VirdiDM™ Premium

- Contains 80% of filler dispersed in polyethylene (PE)
- Removes moisture and acidic impurities during production using LDPE, LLDPE, HDPE, PP, PS and ABS regrinds and re-granulates
- Eliminates the need for raw material drying therefore significantly reduces production cost
- Improves the visual quality and mechanical properties of a final plastic granulate or plastic finished goods
- Suitable for very thin film and foils (above 10 µm).

Main applications:

- Recycling
- Compounding
- Pipe and profile extrusion
- Film blown extrusion
- Blow moulding
- Injection moulding
- Wood plastic composites

Properties	Typical Value	Unit	Test Method
Filler Content	80±2	%	EN ISO 3451
Density	1.95±0.10	g/cm ³	EN ISO 1183
Melt Mass-flow rate, MFR, (190°C, 5 kg), min. 0.2 g/10 min	0.2	g/10 min	EN ISO 1133

Physical Form:

- Pellets
- Colour: Natural

Standard packaging:

- 10 kg barrier bags (pallet 1200 kg)
- 25 kg barrier bags (pallet 1200 kg)
- 1200kg barrier bulk bags (pallet 1200kg)

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Dosing:

VirdiDM™ Premium typical dosing rate ranges from 0.5 to 5%. Dosing should start from 0.5% and if the effects of moisture presence in the raw materials can still be observed, the dosing should be gradually increased by 0.5% in order to achieve the desired effect (do not exceed 5%). **VirdiDM™ Premium** can be dosed using automatic dosing unit or mixed with raw materials before processing (pre-blending).

Warning:

1. In order to avoid deposition of calcium hydroxide on the melt filter observed as white agglomerate, the dosing rate should not exceed 5%.
2. In order to avoid clogging of the melt filter and formation of white spots on the final product, the mixture of the **VirdiDM™ Premium** and the raw materials must be used within 10 hours.

Storage:

The product is hygroscopic. In order to maintain the initial quality of the product it should be stored in tightly closed and original packaging in a cool (below 25°C) and dry place. The product should be protected from exposure to direct sunlight and sources of heat. The shelf life of the product: 12 months

Warning:

Opened bag of **VirdiDM™ Premium** must be used within 12 hours.

The technical data sheet represents typical values of the parameters declared for the product, obtained by analytical methods and cannot be considered as a specification. The typical values indicated in this technical data sheet were obtained on test specimens which were a result of precisely controlled laboratory conditions.

The accurate parameters for the product are included in a quality control certificate.

Processing parameters included in this technical data sheet are based on laboratory trials and cannot be any reason for a claim. They should be treated as guidelines and every plastic processor should adjust its own method individually.

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