



PULCRA@SPIN

ODOUR CONTROL MASTERBATCH

PULCRA@SPIN PP-705

Pulcra Chemicals
The solution specialist

ODOUR CONTROL MASTERBATCH

Pulcra@2spin PP-705 is a high concentrated solid masterbatch additive which reduces chemical malodour build-up based on sulfurs, amines, aldehydes and acids.

Pulcra@2spin PP-705 is added during extrusion, the active ingredient is locked into the fiber and will reduce malodours in different applications like hygiene, carpet, upholstery, apparel,...

The product may also have a positive effect on possible malodours present during production.

HOW IT WORKS

The functional masterbatches need to be added during the extrusion process prior to the melting of the polymer by means of a dosing unit. The added masterbatches will have no negative effect on the extrusion process.

All our innovations are tested on the Spin Master, a semi- industrial extrusion and spinning line developed to facilitate and accelerate the transfer of technology from lab scale to industrial scale.

PRODUCT FEATURES:

- High concentrated active
- The malodours are not masked, instead they are bound to the active ingredient by complexation.
- The active ingredient is locked in the fiber

APPLICATIONS

Non-wovens; personal hygiene products, diapers, apparel, socks, carpets, upholstery, ...





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TESTING

- ISO 17299
- PP – 7% Pulcra@2spin PP-705 addition
- Odour reduction in % towards a control
- NH3 : 100 ppm
- IVA : 90 ppm
- H2S : 10 ppm



TEST METHOD

- ISO 17299-2/3
- Internal tests
- The vessel contains an (un)treated fabric
- The reference vessel contains no fabric
- (Non) contact method
- Leave in the oven for 2-3h @ 30°C
- Detect the amount of reduction via the detector tube method
- Compare
- Repeat the cycle

Odour component chemical	Minimum % of concentration reduction rate
Ammonia	70
Acetic acid	70
Isovaleric acid	85
Hydrogen sulfide	70
Methyl mercaptan	70
Indole	70
Nonenal	75

TEST RESULTS

Percentage of odour reduction (%)

PP 5 DPF BCF	AMMONIA	H2S	ISOVALERIC ACID
without masterbatch	19%	19%	
with masterbatch (PP+ 7% Pulcra@2spin PP-705)	59%	100%	

PP 3 DPF	AMMONIA	H2S	ISOVALERIC ACID
without masterbatch	32%	6%	30%
with masterbatch (PP+ 7% Pulcra@2spin PP-705)	66%	100%	51%

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