Odour Adsorber

plastic technology

Mineral-based d_2p® masterbatches and additives designed to adsorb odours, hydrocarbons and water vapour inside plastic packaging.

Making Plastic Smarter
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d_2p® Odour Adsorber Technology

Suitable for all plastic processing technologies. Can be supplied as a masterbatch or in powder form.

Characteristics	Masterbatch Series 96500
Composition	Naturally occurring adsorbent
Masterbatch Colour	White
Mechanism	Molecular sieve adsorbs odours and excess moisture in the finished product
Applications	Car interiors, packaging, household appliances, food containers, medical appliances and garbage bags
Addition Rate	5% (+/- depending on application)
Odour	None
Stability	The material is stable up to 320°C
Storage	Should be stored in cool, dry conditions away from sources of UV light. Has a shelf life of 12 months from date of supply

The Facts

- In addition to dealing with unpleasant odours, our d_2p® (oa) technology can also be used in containers to keep the contents dry.
- The special structure of the product enables it to act as a hydrocarbon, vapour and gas adsorber (chemical sieve) to trap these molecules.
- Reduces odour from pigments and additives containing substances such as ammonia, trimethylamine, methylmercaptane, sulphur, hydrogen-sulphide and chlorine.
- Suitable for all plastic processing technologies.
- Helps to prevent discoloration.
- Can be used as a general deodoriser and to combat mildew or mould.

Processing Information:

These d_2p® products can be incorporated into polymers and fibres and used in extrusion blow moulding as well as fibre and flexible and rigid packaging products. The masterbatch is incorporated into the polymer at the point of conversion via blow, cast, film and sheet extrusion, injection and blow moulding, coating and lamination.

Odour Adsorber (oa)

An independent 3rd party study was carried out to test the effectiveness of d_2p® (oa) and d_2p® (ea) samples were exposed to a range of Ethylene concentrations (15ppm up to 150ppm). The study found that more than 80% of the Ethylene gas was adsorbed in less than 24 hours and more than 95% adsorbed within 48 hours.

In another experiment, the samples were exposed to an ethylene concentration of 140ppm, where 90% was adsorbed within the first 25 hours

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