

Odour adsorber plastic technology

Mineral-based d₂p masterbatches and additives designed to adsorb odours, hydrocarbons and water vapour inside plastic packaging to delay spoilage of fruit, vegetables and flowers.



d₂p adsorber technology



d₂p odour adsorber can be used as a plastic masterbatch, in powder or incorporated into liquid polymers.

Characteristics	d ₂ p 96520 odour adsorber technology
Composition	Naturally occurring adsorbent.
Masterbatch Colour	White to grey.
Mechanism	Molecular sieve adsorbs odours and excess moisture in the air.
Applications	Car interiors, packaging, household appliances, food containers, medical appliances and garbage bags.
Addition Rate	2-5% (MB) 0.5-2% (Powder).
Odour	None.
Stability	The material is stable up to 300°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 d₂p (oa) technology can also be used in containers to keep the contents dry.
- The special structure of our product enables it to act as a hydrocarbon, vapour and gas adsorber (chemical sieve) to trap the molecules. It can therefore remove ethylene gas from containers.
- Reduces odour from pigments and additives containing substances such as ammonia, trimethylamine, methylmercaptane, sulphur, hydrogen-sulphide and chlorine.
- The active substance in d₂p (oa) is a naturally-occurring mineral.
- 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 d₂p 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.

Disclaimer: The information provided is general information. For specific applications, please consult our Technical Department. Supplies of d₂p are conditional upon regulatory approval for the purpose(s) concerned in the country or countries concerned.

Odour Adsorber (oa)

Flowers, fruit and vegetables continue breathing after harvesting. They consume oxygen and release CO₂, ethylene and water vapour.

Ethylene generates powerful greenhouse gas effects and accelerates rotting. The excess moisture promotes the development of mould, yeasts, fungi and bacteria. By adsorbing the ethylene the greenhouse gas effect is prevented.

Water is initially adsorbed, then slightly released, eventually reaching equilibrium. Controlling the level of moisture prevents softening of food and drooping in packaged flowers.



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