

ChemPlasa™OAB-101

In many contexts undesired, odor and/or taste-producing substances appear owing to chemical degradation or transformation during production or compounding of materials. These substances can be of a highly varying chemical character. The occurrence of such degradation can constitute a health hazard or merely a source of irritation. Since the human being normally is most susceptible to odors and tastes, the substances need not appear in very high concentrations, but in most cases as low concentrations as 1 or a few ppm are sufficient to make a taste or odor evident.

TYPE

ChemPlasa™OAB-101 is a highly active, hydrophobic adsorbent zeolite for the removal of undesirable odors and flavours from polymers. This special adsorbent system can easily be incorporated as additive to existing master batch formulations. It adsorbs VOC molecules of up 5.2 Angstrom.

TYPICAL SPECIFICATION

BET surface area m ² /g	300 min
Particle size (µm)	4
Appearance, form	white powder
Na ₂ O	0.1% max
LOI (loss on ignition), 1000°C (wt%)	3
Thermal stability, up to (°C)	1'000
(°F)	1'832
Solubility, in H ₂ O and Organics	Insoluble

APPLICATION

ChemPlasa™OAB-101 can be added either as it is or in the form of a so-called master batch, i.e. mixed with a polymer. In the extruder or the corresponding compounding device, the components are mixed and the ChemPlasa™OAB-101 is uniformly distributed by dispersion in the molten polymer material. In the finished, formed plastic product, the ChemPlasa™ OAB-101 will thus be present in this manner and can effectively produce its odor- and taste-eliminating effect.

The typical amount of ChemPlasa™OAB-101 in the final product is 0.3% to 0.8%. In normal condition, ChemPlasa™OAB-101 when added at less than 0.5% in polymer eliminates undesired odor. After mixing in the polymer, its high adsorption capacity will keep until reach to the saturation value of its adsorption. We recommend adjusting the dosage according to the actual needs in order to achieve the best odor control effect.

Meanwhile, it is known to remove any undesired odor and/or flavours by means of adsorption of VOC/odors from air based on organic compounds down to ppm levels, even in the presence of water.

ADDITIONAL INFORMATION

Storage stored in original pack in cool, dry conditions the product has a shelf life of two years

Packing unit fibre drums of 15kg, all with inner PE liner

Safety this product is non toxic. It does not contain any dangerous substances according to the criteria of the EC Council Directive 99/45/EC and 2001/60/EC

CAS-No 1318-02-1

INCI name sodium alumina silicate