

GENIOPLAST® PP 20A08



Siliconadditive

GENIOPLAST® PP 20A08 is a pelletized formulation containing 20 % of a functional silicone constituent dispersed in polypropylene. It has been specifically developed as compounding additive for unfilled and filled thermoplastic polyolefin compounds.

Properties

When added to thermoplastic polymer systems at 0.5 % to 2 %, processing and flow of the resin is improved, including less extruder torque, less extruder die pressure and faster throughput. The surface quality of extruded parts is also improved. GENIOPLAST® PP 20A08 is odorless.

In contrary to amides and other fatty acids typically used during compounding of filled thermoplastics GENIOPLAST® PP 20A08 does not migrate due to its high molecular weight. At the recommended use levels (0.5 - 2 %) GENIOPLAST® PP 20A08 does not negatively impact the thermo-mechanical properties of the compounds it is added to. Due to its specific effect the processing temperature of the polyolefin compound can be lowered slightly. Water uptake of compounds utilizing hydrophilic fillers is reduced by using GENIOPLAST® PP 20A08.

Technical data

General Characteristics

Property	Condition	Value	Method
Active substance	-	20 %	-
Appearance and color	-	white granules	-
Density	25 °C 1013 hPa	0.923 g/cm ³	calculated
organic matrix resin	-	Polypropylene, MI 4	-
typical use level	-	0.5 - 2 %	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be downloaded via WACKER web site <http://www.wacker.com>.

Applications

- Thermoplastics & Elastomers

Application details

GENIOPLAST® PP 20A08 should be used as a compounding additive. Typical usage level is between 0.5 – 2 %. It's recommended to use about 1 % (w/w). The pellets should be used in standard extrusion equipment similar to standard thermoplastic pellets. Suitable equipment for compounding comprises twin-screw extruders, co-kneaders, and batchmixers. For the compounding process, GENIOPLAST® PP 20A08 can be added at the feeding zone of the extruder either as pre-mix together with resin polymer pellets or via a separate feeding unit; it can also be added via side-feeder. Removal of the GENIOPLAST® PP 20A08 from extrusion equipment is easily done by purging with standard, non-additivated polyolefins like PP. Long term processing temperatures above 230 °C are not recommended using GENIOPLAST® PP 20A08. GENIOPLAST® PP 20A08 is compatible with all PP grades, pigments, as well as fillers such as wood fibers, talc or calcium carbonate.

Additive for

- Wood polymer composite pellets and profiles
- filled polyolefin compounds
- PP cast resin films

Packaging and storage

Packaging

- 20 kg bag
- 900 kg pallet

Storage

Further information for storage:

Store in a dry and cool place.

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code GENIOPLAST® PP 20A08



For technical, quality or product safety questions, please contact:

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