

GENIOPLAST® PELLET S

GENIOPLAST®

Siliconadditive

GENIOPLAST® PELLET S is a pelletized silicone gum formulation with an outstanding high loading of ultrahigh molecular weight (uhmw) siloxane polymer.



Properties

When added to thermoplastic resin systems at 0.1 % to 1 %, improved processing and flow of the resin is expected, including less extruder torque, less extruder die pressure, faster throughput, reduction of melt viscosity and better mould filling. At higher addition levels, 1 % to 5 %, also improved surface properties are expected, including lower coefficient of friction and greater mar and abrasion resistance. GENIOPLAST® PELLET S can also improve burning characteristics of polyolefins when applied in combination with halogen free flame retardant fillers. GENIOPLAST® PELLET S is expected to give improved benefits compared to conventional lower molecular weight additives, e.g. less screw slippage, long-term low coefficient of friction, fewer paint and printing problems, and a broader range of performance capabilities.

GENIOPLAST® PELLET S does not contain any thermoplastic resin as a carrier but some quantity of fumed silica instead. Fumed silica as a constituent of the pelletized formulation does not show any adverse effect in the application; it provides general compatibility with thermoplastic resin when used as a compounding additive in thermoplastic systems to impart benefits such as processing improvements and modification of surface characteristics.

Technical data

General Characteristics

Property	Condition	Value	Method
appearance	-	translucent, whitish pellets	-
fumed silica content	-	approx. 30 %	-
siloxane polymer content	-	approx. 70 %	-
suggested use level	-	0.1 - 5 %	-

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

- Plastic Additives

Application details

GENIOPLAST® PELLET S is an additive specifically designed for the compounding and masterbatch industry. Suitable equipment for compounding comprises twin-screw extruder, co-kneader and batch-mixer.

Because of its high thermal stability, GENIOPLAST® PELLET S can be applied over a wide temperature range, up to 300 °C (570 °F). Compounding and subsequent processing conditions are determined by the thermoplastic resin GENIOPLAST® PELLET S is added to for the compounding process.

GENIOPLAST® PELLET S can be added at the feeding zone of the extruder either as pre-mix together with the resin polymer pellets or via separate feeding unit; it can also be added via side-feeder. It is recommended to avoid pressure when feeding GENIOPLAST® PELLET S which may result in deformation of the pellets.

Additive for

- polyolefin compounds
- engineering plastics compounds
- TPE compounds

Packaging and storage

Packaging

GENIOPLAST® PELLET S is available in 15 kg and 270 kg cardboard box.

Storage

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/genioplast>.

QR Code GENIOPLAST® PELLET S



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

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