

GENIOPLAST® PA445200 CN

Silicone Gum

Product description

GENIOPLAST® PA45200 CN is a pelletized silicone gum formulation with an outstanding high loading of ultrahigh molecular weight siloxane.

GENIOPLAST® PA45200 CN 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.

Application

GENIOPLAST® PA45200 CN can be 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® PA45200 CN can also improve burning characteristics of polyolefins when applied in combination with halogen free flame retardant fillers.

GENIOPLAST® PA45200 CN 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.

Processing

GENIOPLAST® PA45200 CN 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® PA45200 CN 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® PA45200 CN is added to for the compounding process.

GENIOPLAST® PA45200 CN 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® PA45200 CN which may result in deformation of the pellets.

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>.

Technical data

Property	Method	Value
Appearance		translucent, whitish pellets
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.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001
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