

# GENIOPLAST® PP50S12



## Siliconadditive

GENIOPLAST® PP50S12 is a pelletized masterbatch formulation. GENIOPLAST® PP50S12 contains 50 % of a non-reactive, ultra-high molecular weight silicone gum, dispersed in polypropylene homopolymer. It has been specifically developed as additive to improve scratch resistance in polypropylene based compounds for automotive interior applications. This product is available as standard granules (25-35 pieces per gram) and also in form of micro granules (GENIOPLAST® PP50S12 MG).

## Properties

In a typical PP compound formulation for automotive interior parts (PP copolymer, 20 % talc, impact modified, UV stabilized, black) GENIOPLAST® PP50S12 is used at a loading between 1 and 3 %. Main benefits for polypropylene applications in automotive comprise improvement of scratch and mar performance, reduction of coefficient of friction, improvement of surface aspects (soft touch, not sticky, not blooming). GENIOPLAST® PP50S12 is odorless and not contributing to fogging. In contrary to amides and other fatty acids used in the past, GENIOPLAST® PP50S12 does not migrate and bloom outside the interior part and therefore not contribute to fogging and to stickiness. At the recommended use levels (1 - 3 %), GENIOPLAST® PP50S12 does not negatively impact the thermo-mechanical properties of the compounds it is added to.

# Technical data

## General Characteristics

Property	Condition	Value	Method
appearance	-	off-white pellets	-
organic polymer resin	-	Polypropylene, MI 12	-
silicone gum content	-	48 - 52 %	-
suggested use level	-	1 - 3 %	-

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
- Thermoplastics & Elastomers

## Application details

Polypropylene based compounds for dashboards, door trim and trunk trim panels, pillar trim, and center consoles.

GENIOPLAST® PP50S12 is a compounding additive. Compounding is required to achieve the proper rheology for the migration of the silicone constituent to the surface during the melt phase. After processing and when the part has cooled, the ultra-high molecular weight silicone constituent is fixed inside the PP compound and also at the surface, assuring stable performance over time. GENIOPLAST® PP50S12 is compatible with all PP grades (homopolymer or copolymer), pigments, as well as mineral fillers such as talc or calcium carbonate.

## Packaging and storage

### Packaging

20 kg bag

### 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>.

## QR Code GENIOPLAST® PP50S12



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

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