GENIOPLAST® GUM

Silicone Gum

GENIOPLAST® GUM is an ultra-high molecular weight polydimethyl siloxane (silicone gum) with low volatiles content.

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 of GENIOPLAST® GUM, 1% to 5%, also improved surface properties are expected, including release, lubricity, slip, improved surface gloss, lower coefficient of friction, and greater mar and abrasion resistance. GENIOPLAST® GUM can also improve burning characteristics of thermoplastic resins, especially when applied in combination with halogen-free flame retardant fillers. GENIOPLAST® GUM is expected to give improved benefits compared to conventional lower molecular weight siloxane additives, e.g. less screw slippage, improved release, a lower coefficient of friction, fewer paint and printing problems, and a broader range of performance capabilities.
Technical data

General Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Condition</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brabender plasticity⁽¹⁾</td>
<td>-</td>
<td>5.0 - 5.8 kN.m</td>
<td>-</td>
</tr>
<tr>
<td>acidic residues (determined as HCl)</td>
<td>-</td>
<td>max. 10 ppm</td>
<td>-</td>
</tr>
<tr>
<td>color</td>
<td>-</td>
<td>colorless</td>
<td>-</td>
</tr>
<tr>
<td>volatiles</td>
<td>3.0 h</td>
<td>150.0 °C</td>
<td>max. 1.5 %</td>
</tr>
</tbody>
</table>

⁽¹⁾corresponding to a viscosity range of approx. 10.000 Pas to 25.000 Pas at 25 °C

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

Due to its high viscosity, GENIOPLAST® GUM is incorporated into thermoplastic resins preferably by batch technologies.

Confirmation of food contact compliance for GENIOPLAST® GUM is available upon request.

Packaging and storage

Packaging

• 180 kg steel drum
• 190 kg fibre drum

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

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info@wacker.com, www.wacker.com

The data presented in this medium 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 medium 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 information provided by us does 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 product for a particular purpose.