Kraton® G1651 E Polymer

Identifier: K061DDc09E

Description

Kraton G1651 E is a clear, linear triblock copolymer based on styrene and ethylene/butylene, S-E/B-S, with bound styrene of 31.5% mass. It is supplied from Europe in the physical forms identified below.

- Kraton G1651 EU - supplied as undusted fluffy crumb
- Kraton G1651 ES - supplied as fluffy crumb dusted with amorphous silica

Kraton G1651 E is used as a base material for compound formulations and as a modifier of thermoplastics. The inherent stability of the mid block suggests the use of this product in applications that must withstand weathering and high processing temperatures.

Sales Specifications

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Units</th>
<th>Sales Specification Range</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polystyrene Content</td>
<td>KM 03</td>
<td>%m</td>
<td>30.0 TO 33.0</td>
<td></td>
</tr>
<tr>
<td>Total Extractables</td>
<td>KM 05</td>
<td>%m</td>
<td>&lt;= 1.6</td>
<td></td>
</tr>
<tr>
<td>Antioxidant Content</td>
<td>KM 08</td>
<td>%m</td>
<td>&gt;= 0.03</td>
<td></td>
</tr>
<tr>
<td>Volatile Matter</td>
<td>KM 04</td>
<td>%m</td>
<td>&lt;= 0.5</td>
<td></td>
</tr>
<tr>
<td>Ash (ES)</td>
<td>ISO 247</td>
<td>%m</td>
<td>0.3 TO 0.5</td>
<td></td>
</tr>
</tbody>
</table>

Typical Properties (These are typical values and may not routinely be measured on finished product)

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Units</th>
<th>Typical Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solution Viscosity</td>
<td>KM06</td>
<td>Pa.s</td>
<td>1.5</td>
<td>a</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>ISO 2781</td>
<td></td>
<td>0.91</td>
<td></td>
</tr>
</tbody>
</table>

a Measured on 10% m/m solution in toluene at 25°C using a Brookfield viscometer LVT model

Packaging

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End Use Requirements

If the finished article is intended for use in food contact and packaging applications, toys, or human contact areas, manufacturers of the final product should observe all relevant regulations. Some of these regulations require tests to be carried out on the final product, e.g. migration. These are the responsibility of the final product manufacturer.

Information on the food packaging clearances of individual products is available from Kraton Polymers.

Medical, Healthcare and Cosmetic Applications and Trademark Usage

Kraton Polymers products should not be used in any devices or materials intended for implantation in the human body as defined by the U.S. Food and Drug Administration under 21 CFR 812.3(d) and 21 CFR 860.3(d).

Kraton Polymers products may, in certain circumstances, be used in the following products or applications with prior written approval for each specific product or application:

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b. Drugs and other Pharmaceuticals (exclusive of packaging or delivery applications).

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Kraton Polymers has no specific expertise in these markets and applications, and does not intend to perform testing, clinical studies or other investigations of the suitability of its products for specific applications.

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Please contact your Kraton Polymers Sales Representative for more details before using our products in these specific applications.

Safety and Handling Precautions

Read the Safety Data Sheet carefully and thoroughly before beginning any work. Additional information relating to the health, safety, storage, handling and processing of Kraton Polymers products can be found in “Health and Safety Aspects of Kraton D and Kraton G Polymers” (Document K0155), available from your local Sales Representative or the company website. Kraton Polymers also recommends that customers or users consult other sources of safety information, for example, the current edition of the “Code of Practice on the Toxicity and Safe Handling of Rubber Chemicals,” British Rubber Manufacturers Association Limited.

Kraton Polymers products and compounds can accumulate electrostatic charges when rubbed, chafed or abraded. Processing and storage equipment for use with Kraton Polymers products should provide a means of dissipating any charges that may develop.

When processing Kraton Polymers products, maintain a fire watch if the material reaches 225°C (437°F) for Kraton IR and Kraton D (polymers and compounds), and 280°C (536°F) for Kraton G (polymers and compounds). The temperatures listed above are indicated only for safety reasons (risk of fire and product degradation) and are not necessarily recommended for processing. Degradation of the polymer (polymer breakdown) will start at lower temperatures depending on the specific processing conditions. Therefore, operating below these temperatures does not guarantee the absence of product degradation.

Kraton Polymers products (the neat resin or the base product) are high molecular weight polymers which are non-toxic and biologically inactive.

Warranty

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