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KRATON® G4609 H Polymer

Data Document

Identifier: K373DDk15U

Description

Kraton G4609 H is a white mineral oil extended linear triblock copolymer based on styrene and ethylene/butylene with a polystyrene content of 33%. Nominal oil content of the polymer is 45.5%w (90 parts/100 parts rubber (phr)). It is supplied from North America iin the physical form identified below.

• Kraton G4609 HI - supplied as a dusted powder

Kraton G4609 H is used as a base material for themoplastic elastomer (TPE) compound formulations for a variety of applications. It is also used as a modifier of thermoplastics and bitumen. The inherent stability of SEBS polymers suggests the use of G4609 H in applications that must withstand weathering and high processing temperatures.

| Sales Specifications | | | | |
|--------------------------|---------------------------|--------------|---------------------------|--------------|
| <u>Property</u> | Test Method | <u>Units</u> | Sales Specification Range | <u>Notes</u> |
| Polystyrene Content | KM 03 | %m | 31.2 TO 34.6 | b |
| Volatile Matter | KM 04 | %m | <= 1.0 | |
| Total Extractables | KM 05 | %m | 43.0 TO 52.0 | |
| Ash, I | BAM 908 | %w | 2.00 TO 6.00 | С |
| Antioxidant | KM 08 | %w | 0.02 TO 0.06 | а |
| Tensile Strength | BAM 1211 | psi | >= 800 | |
| a Non-staining phen | nolic antioxidant. | | | |
| b Measured on the | polymer before hydrogenat | ion. | | |

Packaging

Calcium Carbonate

Kraton Polymers are available in a number of different package types. For information specific to this grade, please contact your local Kraton Polymers representative.

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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 Devices, 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). No customer of Kraton Polymers, or any other party, shall, without the express written consent of Kraton Polymers for each specific, individual application, be permitted to manufacture, use, sell, process, or otherwise supply, directly or indirectly, any Kraton Product, or any compound containing or made from any Kraton Product, in any of the following end-use products or applications:

Cosmetics products, other than:

- (a) cosmetics products containing Kraton product grades designated for cosmetics use, and
- (b) products designed for the packaging or delivery of cosmetics.

For purposes hereof, a product shall be deemed a 'cosmetic product' if it satisfies the definition of cosmetic product contained in any applicable law or regulation of the United States, China or the European Union (or any member state thereof).

Drug and other pharmaceutical products, other than products designed for the packaging or delivery of drugs and other pharmaceuticals.

Medical devices, other than:

- (a) any medical device falling within the definition of either a Class I or Class II medical device, as defined in any federal law or regulation of the United States or Canada, or
- (b) any medical device falling within the definition of a Class I or Class II(a) medical device, as defined by any applicable regulation of the European Union or any member state thereof.

No customer of Kraton Polymers, or any other party, shall be permitted to use any of Kraton Polymer's trade names, trademarks, logos or other similar identifying marks or characteristics for the manufacture, sale, or promotion of its cosmetics, drugs, pharmaceutical products/materials, or medical devices.

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

The information contained in this publication is, to the best of Kraton Polymers' knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use and storage are beyond Kraton Polymers' control. The customer understands that it shall make its own assessment to determine the suitability of a Kraton Polymers product for a particular purpose. Further, nothing contained herein shall be construed as a recommendation to use any Kraton Polymers product in conflict with existing patents. All products purchased from or supplied by Kraton Polymers are subject to terms and conditions set out in the applicable contract, order acknowledgement and/or bill of lading. Kraton Polymers warrants only that its products will meet those specifications designated therein.

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