KRATON

K0453
North America
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KRATON™ MD0233 K Polymer

Data Document

Identifier : K453DDh17U

Description

Kraton MD0233 K polymer is a clear linear block copolymer based on styrene and isoprene with a polystyrene content of 22.5% wt. It is supplied from North America in the physical form below

- Kraton MD0233 KT - supplied as a porous pellet dusted with talc

Kraton MD0233 K is used for the modification of bitumen/asphalt, in particular for roofing felt formulations.
Note: This Kraton polymer product is a development product. Thus, its properties and chemical composition may change based on market feedback. Kraton Polymers reserves the right to change specifications and/or discontinue production of the product.

Sales Specifications

Property	Test Method	Units	Sales Specification Range	Notes
Polystyrene Content	KM 03	%m	21.5 TO 25.5	
Gel Content, on 100 mesh	KM 09	ppmw	<= 50	
Total Extractables	KM 05	%m	<= 1.0	
Volatile Matter	KM 04	%m	<= 0.7	
Antioxidant	KM 08	%m	0.08 TO 0.30	a
Ash, T	BAM 908	%w	0.20 TO 0.50	b

a Non-staining phenolic antioxidant. Product also contains a phosphite antioxidant.
b Talc

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

Property	Test Method	Units	Typical Value	Notes
100% Modulus	ASTM D 412	psi	TBD	e
Tensile Strength	ASTM D 412	psi	TBD	e
Elongation at Break	ASTM D 412	%	TBD	e
Styrene / Rubber ratio	n/a		23/77	
Diblock Content	n/a		19	
Specific Gravity	ASTM D 792	g/cc	0.93	
Hardness, Shore A	ASTM D 2240	Shore A (10 sec)	TBD	d
Solution Viscosity	BAM 922	cps	500	c
Melt Index 200□PC, 5 kg	ASTM D 1238	gms/10 min.	< 1.0	

c 15%w toluene solution at 25□PC
d Typical value on polymer compression molded at 350□PF
e Measured on film cast from solution in toluene

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 Devices, Healthcare and Cosmetic Applications and Trademark Usage

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(a) cosmetics products containing Kraton product grades designated for cosmetics use, and
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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.

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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.

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