



K0428
North America
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KRATON™ E1830 H Polymer

Data Document

Identifier : K428DDn19U

Description

Kraton E1830 H is a linear triblock copolymer based on styrene and ethylene/butylene. It is supplied from North America in the physical form identified below.

- Kraton E1830 HU - supplied as an undusted powder
- Kraton E1830 HF - supplied as a dusted powder

Kraton E1830 H is used as a base material for thermoplastic elastomer (TPE) compound formulations for a variety of applications, such as polymer modification, compounding and oil gels. It is also used as a modifier of thermoplastics and bitumen. The inherent stability of SEBS polymers suggests the use of this product in applications that must withstand weathering and high processing temperatures.

Sales Specifications

Property	Test Method	Units	Sales Specification Range	Notes
Polystyrene Content	KM 03	%m	31.2 TO 34.6	b
Volatile Matter	KM 04	%m	≤ 1.0	
Total Extractables	KM 05	%m	≤ 1.6	
Antioxidant	KM 08	%w	0.10 TO 0.18	a
a	Non-staining phenolic antioxidant			
b	Measured on the polymer before hydrogenation.			

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

Property	Test Method	Units	Typical Value	Notes
300% Modulus	BAM 1245	psi	800	c
Melt Index 230Å°C, 5 kg	ASTM D 1238	gms/10 min.	≤ 1	
Styrene / Rubber ratio	n/a		33/67	
Tensile Strength	BAM 1245	psi	≥ 3500	c
Elongation at Break	BAM 1245	%	930	c
Specific Gravity	ASTM D 792	g/cc	0.91	
Hardness, Shore A (30 sec)	ASTM D 2240	Hardness, Shore A (30 sec)	61	d
c	Typical properties determined on film cast from toluene solution			
d	Typical values on polymer compression molded at 450 F.			

Packaging

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.

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.

Legal Disclaimer

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For Further Information

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