



K0712
North America
4/1/2021

KRATON™ E1830 M Polymer

Data Document

Identifier : K712DDa21U

Description

Kraton E1830 M 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 MU - supplied as an undusted powder
- Kraton E1830 MF - supplied as a dusted powder
- Kraton E1830 MS - supplied as a dusted powder

Kraton E1830 M 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 230°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 GHS Data Sheet carefully and thoroughly before beginning any work.

Legal Disclaimer

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For Further Information

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