



K0538
Japan
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KRATON™ D4270 J Polymer

Data Document

Identifier : K538DDc19A

Description

Kraton D4270 J is an oil-extended branched block copolymer based on styrene and butadiene, with bound styrene in the neat polymer of 32% mass. It is supplied from Japan in the physical forms below.

- Kraton D4270 JSP - supplied as dusted dense pellets
- Kraton D4270 JS - supplied as dusted crumb

Kraton D4270 J is used for formulating compounds for footwear and general purpose applications and as a modifier of bitumen.

Sales Specifications

Property	Test Method	Units	Sales Specification Range	Notes
Volatile Matter	KM 04	%m	≤ 1.00	
Melt Flow, 200C/5000g	ISO 1133	g/10 min	10 TO 24	
Ash	ISO 247	%m	≤ 1.0	

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

Property	Test Method	Units	Typical Value	Notes
Oil content		%mass	31.0	
Tensile Strength	ISO 37	Mpa	12	
300% Modulus	ISO 37	MPa	1.9	
Elongation at Break	ISO 37	%	1100	
Polystyrene Content	KM03	%m	32	
Specific Gravity	ISO 2781		0.94	
Hardness, Shore A (30 sec)	ISO 7619		46	

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.

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 (437F) for Kraton IR and Kraton D (polymers and compounds), and 280°C (536F) 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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