



K0402 [2]
Europe/Africa
May 2006

Kraton® D1118 polymer

Data Document

Description

Kraton® D1118 polymer is a clear, diblock copolymer based on styrene and butadiene, with a bound styrene of 33% mass. It is supplied from Europe in the physical form identified below

- D1118AS supplied as dusted porous pellets
- D1118AM supplied as dusted powder

Kraton D1118 polymer is used as a modifier of bitumen or thermoplastics and in compound formulations. It may also find use as an ingredient in formulating adhesives, sealants and coatings.

Sales Specifications

Property	Test Method	Units	Sales Specification Range
Bound styrene	KM03	%mass	31.0 - 35.0
Volatile matter	KM04	%mass	≤ 1.0
Ash ^[a] ^[b]	ISO 247-B	%mass	0.15 - 0.65 (S)
Ash ^[a] ^[b]	ISO 247-B	%mass	2.5 - 5.0 (M)
Total extractables	KM05	%mass	≤ 1.0
Solution viscosity	KM06	Pa.s	0.47 - 0.79
Antioxidant content	KM08	%mass	0.14 - 1.0

[a] Product forms "S" or "T"

[b] Product form "M"

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

Property	Test Method	Units	Typical Value
Styrene / Rubber ratio		%	33/67
Diblock content		%	78
Solution viscosity	KM06	Pa.s	0.63
Specific gravity	ISO 2781	Mg/m ³	0.94

Packaging

Kraton polymers are available in a number of different pack 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, 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).
Kraton Polymers products may, in certain circumstances, be used in the following products or applications with prior written approval for each specific product or application:
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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.

Warranty

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For further information:		In Asia Pacific	
USA Tel (toll free):	+1-800-4-Kraton (+1 800-457-2866)	Tel Japan	+81-3-3769-5990
USA Tel:	+1-281-504-4950	Hong Kong	+852-250-80-657
USA Fax:	+1-281-504-4953	Taiwan	+886-2-2545-1538
In Europe / Africa		China	+86-21-5109-5212
Europe Fax:	+44-(0)1829-773-130	South East Asia / India	+91-11-628-4324
In South America		Australia	+61-41-937-5055
Fax:	+55-(0)19-3874-7275	Or contact your local Kraton Polymers Representative	
		Visit us at www.kraton.com	
		Email info@kraton.com	



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