



K0350  
North America  
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## KRATON® G2832 Compound

Data Document

### Description

KRATON® G2832 is a formulated compound based on styrene-ethylene/butylenes-styrene (SEBS) block copolymer which exhibits excellent elasticity with low hysteresis set.

- G2832-1000 supplied as a translucent dusted, dense pellet.

KRATON G2832 can be used alone or blended with polyolefin resin to improve toughness and processability in elastomeric film applications.

### Sales Specifications

<u>Property</u>	<u>Test Method</u>	<u>Units</u>	<u>Sales Specification Range</u>
Melt Flow <sup>a</sup>	BAM 903	g/10 min.	13 - 21
Hardness, Shore A <sup>b</sup>	BAM 1003		44 - 54
<sup>a</sup> 200°C/5 kg			
<sup>b</sup> Value on product injection molded at 220°C			

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

<u>Property</u>	<u>Test Method</u>	<u>Units</u>	<u>Typical Value</u>
Density	ASTM D792	g/cc	0.91
Tensile Strength	ASTM D412	psi (MPa)	1512 (10)
Ultimate Elongation	ASTM D412	%	610
Elmendorf Film Tear	ASTM D1922	gm/mil	MD TD 43 27
<u>Cyclic hysteresis to 100% extension</u>	WTC FILM 100		
Stress at 100% extension		psi (MPa)	MD TD 240 (1.65) 170 (1.17)
Recoverable energy after 1 cycle		%	MD TD 80 90
Hysteresis set @ 1 cycle		%	MD TD 5 4
<u>Cyclic hysteresis to 300% extension</u>	WTC FILM300		
Stress at 300% extension		psi (MPa)	MD TD 470 (3.24) 310 (2.14)
Recoverable energy after 1 cycle		%	MD TD 70 80
Hysteresis set @ 1 cycle		%	MD TD 11.5 9
<u>Stress Relaxation at 23°C for 30 mins.</u>	WTC FILMRX-2		
% stress decay @ 50% extension		%	MD TD 25 15
% stress decay @ 150% extension		%	MD TD 25 15
% stress decay @ 300% extension		%	MD TD 35 25

## 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.

## Processing

Elastic KRATON polymers and compounds can be processed into sheet, film and fiber by a wide variety of methods, including extrusion blowing, extrusion casting, calendaring, solvent casting and melt spinning.

The selection of the method for producing KRATON polymer-based elastic film and sheet depends on several factors. These factors generally are product gauge, gauge uniformity and tensile properties. KRATON polymers will orient in the extrusion direction with subsequent reduction of tensile properties in the transverse direction.

Typical key extrusion cast film conditions are given in the table below.

<b>Fabrication Conditions for Cast Film Extrusion</b>	
Melt temperature	210°C (410°F)
Optimum Gauge range	2 – 5 mils

KRATON polymer film grade products are furnished without slip and antiblocking agents. It is necessary for the film processor to incorporate suitable antiblocking agents when processing this material. Common slip and antiblocking agents suitable for processing polyolefin film could be used in the range of 0-3% wt to yield good results.

## End Use Requirements

If the finished article or product is intended for use in contact with food or in pharmaceutical applications, toys, and other human contact areas, the relevant regulations should be observed. Detailed information is available from the supplier.

For food packaging, manufacturers of the final product should ensure that all ingredients used comply with the regulations. It should be noted that 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.

## Restriction on Medical/Healthcare Applications

DO NOT USE KRATON® POLYMERS PRODUCTS IN ANY DEVICES OR MATERIALS INTENDED FOR TEMPORARY OR PERMANENT IMPLANTATION IN THE HUMAN BODY. THE KRATON COMPANIES ALSO RESTRICT THE USE OF ITS PRODUCTS IN OTHER MEDICAL/HEALTHCARE APPLICATIONS.

Please contact your KRATON Polymers Sales Representative for more details.

THE KRATON COMPANIES HAVE NO SPECIFIC EXPERTISE IN THE MEDICAL/HEALTHCARE MARKET OR APPLICATIONS and do not intend to perform testing, clinical studies or other investigations of the suitability of its products for specific medical/healthcare applications. KRATON polymer products are generally manufactured for use in a variety of commercial applications.

DO NOT USE THE TRADENAMES, TRADEMARKS, LOGOS OR OTHER SIMILAR IDENTIFYING CHARACTERISTICS OF THE KRATON COMPANIES IN THE MANUFACTURE, SALE OR PROMOTION OF MEDICAL DEVICES OR MATERIALS.

THE KRATON COMPANIES MAKE NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE (INCLUDING MEDICAL APPLICATIONS) FOR ITS PRODUCTS.

Each customer or user of KRATON polymer products is solely responsible for determining the suitability of the materials they select for the intended purpose. With regards to medical/healthcare applications, each customer or user must conduct their own studies, registrations, and other related activities to establish the safety and efficacy of their products.

## Safety and Handling Precautions

Read the Material Safety Data Sheet for KRATON polymer products carefully and thoroughly before beginning any work with this product. Additional information relating to Health, Safety, Storage, Handling and Processing can be found in the KRATON Polymers HSE Fact Sheet (ref. K0155), available from your local KRATON Polymers representative. It is also recommended to consult other sources of safety information, for example the current edition of Toxicity and Safe Handling of Rubber Chemicals-Code of Practice, British Manufacturers Association Limited (BRMA), London, EC2A 3JE, UK Tel: +44 (0)20 7457 5040.

KRATON polymers and compounds can accumulate electrostatic charges when rubbed, chafed or abraded. Equipment should provide a means of dissipating any charges that may develop. Processing of KRATON polymers and compounds in high shear equipment can cause the temperature to rise. Do not allow the temperature to exceed 225-230°C (437-446°F) for KRATON D polymers and compounds and 280-285°C (536-545°F) for KRATON G polymers and compounds. Maintain a fire watch if these temperatures are reached. KRATON polymer products (the neat resin or the base product) are high molecular weight polymers, which by all accounts are non-toxic and biologically inactive.

## Warranty

The information contained in this publication is, to the best of our knowledge, true and accurate, but any recommendations or suggestions, which may be made, are without guarantee, since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

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