K0090 North America Issued Jan. 2005	**KRATON® G7720 Compound**	**Data Document**

Description

KRATON® G7720 is an easy processing, general purpose 60 Shore A hardness material designed for a wide variety of applications. It is supplied from North America in the physical forms identified below:

- G7720-1000 supplied as an opaque white pellet.
- G7720-9000 supplied as a black pellet.

Sales Specifications

Property	Test Method	Units	Sales Specification Range
Hardness	BAM 1013	Shore A (10 sec)	52 - 62
Specific Gravity	BAM 1014	gm/cc	1.15 – 1.25

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

Property	Test Method	Units	Typical Value
Shore A Hardness[a]			
Instant			62
10 second			57
Melt Flow, 230°C/5 kg		gm/10 min	10
24hr Mold Shrinkage		in/in	
Machine direction			0.014
Transverse direction			0.008
Tensile Strength[a,c]	ASTM D-412	psi	800
100% Modulus[a,c]	ASTM D-412	%	200
300% Modulus[a,c]	ASTM D-412	%	300
500% Modulus[a,c]	ASTM D-412	%	500
Elongation[a,c]	ASTM D-412	%	700
Tear Strength[a]	ASTM D-624, Die C	pli	150
Compression Set	ASTM D-395B	%	44
22 hrs/70°C			
Heat Aging[b], 168 hrs/150°C (7 days)	ASTM D-573		
Tensile Strength, % retention		%	-40
Elongation, % retention		%	+12
Hardness, Shore A, change			-4

[a]Determined on 5.125" x 5.875" x .125" injection molded plaques.
[b]The long term upper service temperature is greater than 125°C
[c]Machine direction

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

KRATON G7720 can be processed by injection molding, extrusion, thermoforming, and other thermoplastic fabricating techniques.

Typical starting conditions for a reciprocating screw injection molding machine are as follows:

Barrel temperatures, °F	
Rear	380 – 400
Front	400 – 420
Nozzle	420 – 450
Mold temperature, °F	80 – 150
Injection pressure, psig	500 – 700
Back pressure, psi	100 – 200
Injection speed	Medium to Fast

These values are intended only as guidelines, and the optimum conditions will vary from machine to machine.

Since KRATON G7720 conducts heat well compared to polyolefins, molded parts cool quickly and relatively short cycle times are obtained. Scrap is 100% recyclable.

Polystyrene, polypropylene, or poly (ethylene-vinyl acetate) color concentrates can be used to color KRATON G7720.

End Use Requirements

If the finished article or product is intended for use in food contact applications, toys, or human contact areas, manufacturers of the final product should observe all relevant regulations. Detailed information is available from KRATON Polymers.
For food packaging, manufacturers of the final product should ensure that all ingredients used comply with applicable 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.

Restriction on Medical/Healthcare Applications

Products or compounds made from KRATON Polymers' products shall not be used in any of the following applications: (a) cosmetics, (b) drugs and other pharmaceuticals, and (c) Class II and Class III Medical Devices, as defined in 21 CFR 860.3 (hereinafter collectively referred to as "Medical/Healthcare Applications"). KRATON Polymers requires that it give its prior written approval before its products are used in such Medical/Healthcare Applications. Please contact your KRATON Polymers Sales Representative for more details before using our products in these specific applications.
KRATON POLYMERS HAS NO SPECIFIC EXPERTISE IN THE MEDICAL/HEALTHCARE MARKET OR MEDICAL/HEALTHCARE APPLICATIONS AND DOES NOT INTEND TO PERFORM TESTING, CLINICAL STUDIES OR OTHER INVESTIGATIONS OF THE SUITABILITY OF ITS PRODUCTS FOR THESE SPECIFIC APPLICATIONS. KRATON POLYMERS MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE (INCLUDING MEDICAL/HEALTHCARE APPLICATIONS) FOR ITS PRODUCTS.
EACH CUSTOMER OR USER OF KRATON POLYMERS' PRODUCTS IS SOLELY RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE MATERIALS IT SELECTS FOR THE INTENDED PURPOSE. FOR MEDICAL/HEALTHCARE APPLICATOINS, EACH CUSTOMER OR USER MUST CONDUCT ITS OWN STUDIES, REGISTRATIONS, AND OTHER RELATED ACTIVITIES TO ESTABLISH THE SAFETY AND EFFICACY OF ITS PRODUCTS.
Do not use KRATON Polymers' tradenames, trademarks, logos or other similar identifying characteristics for the manufacture, sale or promotion of products intended for Medical/Healthcare Applications.

Safety and Handling Precautions

Read the Material Safety Data Sheet for KRATON polymer products carefully and thoroughly before beginning any work with such products. Additional information relating to health, safety, storage, handling and processing of KRATON Polymers' products can be found in the KRATON Polymers HSE Fact Sheet (K0155), available from your local KRATON Polymers Sales Representative. KRATON Polymers also recommends that customers or users consult other sources of safety information, for example the current edition of "Code of Practice on the Toxicity and Safe Handling of Rubber Chemicals," British Rubber Manufacturers Association Limited (BRMA) (www.brma.co.uk).
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 by all accounts are non-toxic and biologically inactive.

Warranty

The information contained in this publication is, to the best of KRATON Polymers' knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use and storage are beyond KRATON Polymers' control. The customer understands that it shall make its own assessment to determine the suitability of a KRATON Polymers' product for a particular purpose. Further, nothing contained herein shall be construed as a recommendation to use any KRATON Polymers product in conflict with existing patents. All products purchased from or supplied by KRATON Polymers are subject to terms and conditions set out in the applicable contract, order acknowledgement and/or bill of lading. KRATON Polymers warrants only that its products will meet those specifications designated therein.
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For further information:

In the USA

Tel (toll free):	+1-800-4-KRATON (+1 800-457-2866)
Tel:	+1-832-204-5384 (from outside US)
Fax:	+1-832-204-5459

In Europe/Africa

Fax:	+44-(0)1829-770-961

In South America

Fax:	+55-(0)19-3874-7275

In Asia Pacific

Tel:	Japan	+81-3-3769-5990
	Hong Kong	+852-250-80-657
	Taiwan	+886-2-2545-1538
	South East Asia / India	+91-11-628-4324
	Australia	+61(0)419375055

Or contact your local KRATON Polymers Representative

Visit us at www.kraton.com

Email info@kraton.com

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