



K0517
North America

KRATON[®] D2109 DS-W Compound

Data Document

Identifier : K517DDd15U

Description

Kraton D2109 DS-W is an easy processing, general purpose 45 Shore A hardness material designed for a wide variety of applications. It is supplied from North America in the physical form identified below.

- Kraton D2109 DS-W - supplied as a dense pellet

Sales Specifications

Property	Test Method	Units	Sales Specification Range	Notes
Melt Flow, 200C/5000g	ASTM D1238	g/10 min	14.00 TO 24.00	
Specific Gravity	BAM 1014		0.915 TO 0.945	
Hardness, Shore A	BAM 1003		40 TO 50	a

a Value on product compression molded @120C.

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

Property	Test Method	Units	Typical Value	Notes
300% Modulus	ASTM D 412	psi	300	c d b
100% Modulus	ASTM D 412	psi	150	b c e
100% Modulus	ASTM D 412	psi	200	c b d
Tensile Strength	ASTM D 412	psi	700	c b e
Tear Strength	ASTM D 624	pli	125	b d c
300% Modulus	ASTM D 412	psi	250	b e c
Elongation at Break	ASTM D 412	%	800	c b e
Elongation at Break	ASTM D 412	%	550	d b c
Tensile Strength	ASTM D 412	psi	500	c d b
Tear Strength	ASTM D 624	pli	150	b e c

b Die C

c Typical properties based on injection molded plaques.

d Machine Direction

e Transverse 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.

(R) KRATON and the KRATON logo are trademarks owned by the KRATON Polymers Group of Companies

Processing

Kraton D2109 DS-W 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, deg. F

Rear - 340-360

Front - 370-390

Nozzle - 350-380

Mold temperature, deg. F

50 - 100

Injection pressure, psig

500-700

Back pressure, psi

40-60

Injection speed

Medium to Fast

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

Normal mold shrinkage for Kraton D2109 DS-W is about 0.025-0.027 in/in in the direction of flow.

Since Kraton D2109 DS-W 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 D2109 DS-W.