KRATON[™]

STRETCHING THE LIMITS

POLYMERS IN ELASTIC FILMS



Soft to the Touch, Strong to the Finish

Kraton produces a series of SIS and SBS polymers designed for elastomeric film production. They combine the unique characteristics of low modulus and low hysteresis sets, not available from other thermoplastic polyurethanes, copolyesters or EVA based films.

Films produced using Kraton polymers provide many benefits, are very soft to the touch and can be bonded to polyolefins either thermally or adhesively. The low modulus makes them the material of choice for elastic structures in a wide range of products.

Applications:

Hygiene

- » Diaper Ear Tabs
- » Stretch Side Panels
- » Waistbands
- » Elastic Attachment Adhesives

Elastic

- » Cuffs
- » Closures
- » Straps
- » Device Covers



PROCESSING OF KRATON POLYMER PRODUCTS FOR FILMS

Key factors for selecting a polymer for elastic films are product gauge, uniformity, and tensile properties. Films that use Kraton polymers can typically be processed on the same equipment as polyolefin film without modifications.

Kraton's film-grade products are formulated without slip and anti-blocking agents. The film manufacturer must incorporate suitable anti-blocking agents when processing these film-grade materials. Our polymers are supplied as free-flowing pellets and do not require drying before processing.



Features:

» Breathable

» Bidirectional Stretch

» Soft

- Benefits:
- » Comfortable
- » Cool
- » Good "On/Off"
- » Maintains Shape for Fit



Elastic Films: Focus on Kraton

» Enhanced Stretch and Recovery

Focus on Kraton		Strength, Excellent Elasticity		Stretch, Excellent Elasticity, 33% diblock		High Strength, Excellent Elasticity			
	Units	D1114		D1117		D1164		DX405	
Chemistry	-	SIS		SIS		SIS		SBS	
Polystyrene Content (PSC)	%	19		17		29		24	
MFR (200°C/5 kg)	g/10	10		33		12		11	
Hardness, ShA (30 s)¹	-	48		33		53		55	
Tensile Properties ² :		MD	TD	MD	TD	MD	TD	MD	TD
Modulus 100%	MPa	0.7	0.6	0.5	0.5	2.2	0.9	1.8	1.7
Modulus 300%	MPa	1.1	0.9	0.8	0.7	2.6	1.3	2.5	2.3
Tensile Strength	MPa	16	17	12	11	21	24	22	21
Elongation at Break	%	1145	1205	1130	1180	1260	1230	1450	1300
Hysteresis at 100% Elongation ² : Set After 1 Cycle	%	12	12	4	8	4	9	9	n.m.

1 Measured on stack of 3 x 2mm compression molded plaques

2 Measured on 100 μm thick extrusion cast film * Data is indicative

KRATON

SUSTAINABLE SOLUTIONS.

ENDLESS INNOVATION.[™]

KRATON CORPORATION

For more information, visit our website at www.kraton.com.

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