KRATON

K0160
North America

KRATON™ D1184 K Polymer

Data Document

Identifier : K160DDm24U

Description

Kraton D1184 K is a clear, branched triblock copolymer based on styrene and butadiene, with a polystyrene content of 31%. It is supplied from North America in the physical form indentified below.

- Kraton D1184 KT - supplied as a dusted dense pellet
- Kraton D1184 KU - supplied as an undusted dense pellet
- Kraton D1184 KIM - supplied as powder dusted with calcium carbonate for supply to the North American market

Kraton D1184 K 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	Notes
Polystyrene Content	KM 03	%m	29.0 TO 33.0	
Total Extractables	KM 05	%m	≤ 1.6	
Volatile Matter	KM 04	%m	≤ 1.0	
Solution Viscosity	BAM 922	cP	900 TO 1,300	a
Ash, KT	BAM 908	%w	0.10 TO 0.30	b
Antioxidant	KM 08	%	0.15 TO 0.40	c
Ash, M Milled	BAM 908	%w	4.0 TO 5.0	d

a 15%w toluene solution at 25 °C
b Talc
c Non-staining phenolic antioxidant.
d The final dusting level is a combination of the talc from the original D1184 KT plus calcium carbonate added during the milling process.

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

Property	Test Method	Units	Typical Value	Notes
Specific Gravity	ASTM D 792		0.94	
Diblock content	n/a		16	
Elongation at break	ASTM D-412	%	820	e
300% Modulus	ASTM D-412	psi	800	e
Tensile strength	ASTM D-412	psi	4000	e
Styrene / Rubber ratio	n/a		31/69	
Hardness	ASTM 2240	Shore A (10s)	68	d
Melt Index 200C, 5 kg	ASTM D 1238	gms/10 min.	<1	

d Typical values on polymer compression molded at 350 °F
e Measured on films cast from a solution in toluene