K762
North America

KRATON™ D1116 K Polymer

Data Document

Identifier : K762DDa24U

Description

Kraton D1116 K is a clear, radial triblock copolymer based on styrene and butadiene, with a polystyrene content of 23%. It is supplied from North America in the physical form identified below.

- Kraton D1116 KT - supplied as a dusted porous pellet
- Kraton D1116 KIM - supplied as a dusted powder

Kraton D1116 K is used as a modifier of bitumen and may be used in formulating adhesives, sealants, and coatings. It is also suitable as an ingredient in formulating compounds for footwear applications.

Sales Specifications

Property	Test Method	Units	Sales Specification Range	Notes
Polystyrene Content	KM 03	%m	21.2 TO 24.4	
Volatile Matter	KM 04	%m	<= 0.7	
Antioxidant	KM 08	%m	0.15 TO 0.40	c
Total Extractables	KM 05	%m	<= 1.0	
Solution Viscosity	BAM 922	cP	2,000 TO 3,000	a
Ash, KT	BAM 908	%w	0.15 TO 0.35	b
Ash, M Milled	BAM 908	%w	2.5 TO 4.5	d

a 20%w toluene solution at 25ÂºC
b Talc
c Non-staining phenolic antioxidant
d The final dusting level is a combination of the talc from the original D1116 KT plus PGA-SD Alumina 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
Tensile strength	ASTM D-412	psi	4600	d
Melt Index 200°C, 5kg	n/a	gms/10 Min.	<1	
Elongation at break	ASTM D-412	%	900	d
Hardness	ASTM 2240	Shore A (10s)	63	e
Styrene / Rubber ratio	n/a		23/77	
300% Modulus	ASTM D-412	psi	350	d
Specific gravity	ASTM D4025	gm/cc	0.94	
Diblock content	n/a		16	

d Typical properties determined on film cast from toluene solution
e Typical values on polymer compression molded at 350ÂºF