

# KRATON® D1101 K

Styrene Butadiene Styrene Block Copolymer

Kraton Polymers LLC

## Message:

Kraton D1101 K is a clear, linear triblock copolymer based on styrene and butadiene with a polystyrene content of 31%. It is supplied from North America in the physical form identified below.

Kraton D1101 KT - supplied as a dusted porous pellet

Kraton D1101 KU - supplied as an undusted porous pellet

Kraton D1101 KIM - supplied as a dusted powder

Kraton D1101 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.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
Uses	Adhesives		
	Coating Applications		
	Compounding		
	Plastics Modification		
	Sealants		
Forms	Pellets		
	Powder		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm <sup>3</sup>	ASTM D4025
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	< 1.0	g/10 min	
Antioxidant Additive <sup>1</sup>	0.15 to 0.40	%	Internal Method
Ash Content			
KIM	4.0 to 6.0	wt%	
KT	0.2 to 0.4	wt%	Internal Method
Polystyrene Content	29 to 33	%	Internal Method
Solution Viscosity - Toluene, 25%wt (25°C)	3.9	Pa · s	Internal Method
Total Extractables	< 1.0	%	Internal Method
Volatile Matter	< 0.70	%	Internal Method
Diblock Content	16.0		
Styrene/Rubber ratio	31/69		
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec, Compression Molded)	69		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup> (300% Strain)	2.76	MPa	ASTM D412
Tensile Strength <sup>3</sup> (Yield)	31.7	MPa	ASTM D412
Tensile Elongation <sup>4</sup> (Break)	880	%	ASTM D412

#### NOTE

- |    |   |
|----|---|
| 1. | Non-staining phenolic antioxidant                 |
| 2. | Measured on films cast from a solution in toluene |
| 3. | Measured on films cast from a solution in toluene |
| 4. | Measured on films cast from a solution in toluene |

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