

KRATON® D1102 K

Styrene Butadiene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton D1102 K is a clear, linear triblock copolymer based on styrene and butadiene, with a polystyrene content of 28%. It is supplied from North America in the physical form identified below.

Kraton D1102 KT - supplied as a dusted porous pellet

Kraton D1102 KU - supplied as an undusted porous pellet

Kraton D1102 K is used as a modifier of bitumen or thermoplastics and in compound formulations. It is also suitable as an ingredient in formulating compounds for footwear applications and may be used in formulating adhesives, sealants and coatings.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
Uses	Adhesives		
	Coating Applications		
	Compounding		
	Footwear		
	Plastics Modification		
	Sealants		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Coating		
	Compounding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D4025
Apparent Density	0.45	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	14	g/10 min	
Antioxidant Additive ¹	0.15 to 0.25	%	Internal Method
Ash Content ²	0.20 to 0.40	%	Internal Method
Polystyrene Content	27 to 30	%	Internal Method
Solution Viscosity - Toluene, 25%wt (25°C)	1.1	Pa · s	Internal Method
Total Extractables	< 1.0	%	Internal Method
Volatile Matter	< 0.70	%	Internal Method
Diblock Content	17.0		
Styrene/Rubber ratio	28/72		
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore A, 10 sec, Compression Molded)	66		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ³ (300% Strain)	2.76	MPa	ASTM D412
Tensile Strength ⁴ (Yield)	31.7	MPa	ASTM D412
Tensile Elongation ⁵ (Break)	880	%	ASTM D412
NOTE			
1.	Non-staining phenolic antioxidant		
2.	Talc		
3.	Measured on films cast from a solution in toluene		
4.	Measured on films cast from a solution in toluene		
5.	Measured on films cast from a solution in toluene		

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