

# KRATON® D1118 K

Styrene Butadiene Styrene Block Copolymer

Kraton Polymers LLC

## Message:

Kraton D1118 K is a clear, diblock copolymer based on styrene and butadiene with a polystyrene content of 33%. It is supplied from North America in the physical form identified below.

Kraton D1118 KT - supplied as a dusted porous pellet

Kraton D1118 KTM - supplied as a dusted powder

Kraton D1118 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		
Appearance	Clear/Transparent		
Forms	Pellets		
	Powder		
Processing Method	Coating		
	Compounding		
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)	10	g/10 min	
Antioxidant Additive <sup>1</sup>	0.15 to 0.40	%	Internal Method
Ash Content			
KT, Talc	0.40 to 0.65	%	Internal Method
KTM	4.0 to 6.0	%	
Polystyrene Content	31 to 35	%	Internal Method
Total Extractables	< 1.0	%	Internal Method
Viscosity - solution (Toluene) 25%wt (25°C)	470 to 790	mPa · s	Internal Method
Volatile Matter	< 1.0	%	Internal Method
Diblock Content	78.0		
Styrene/Rubber ratio	33/67		

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec, Compression Molded)	74		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup> (300% Strain)	1.21	MPa	ASTM D412
Tensile Strength <sup>3</sup> (Yield)	1.72	MPa	ASTM D412
Tensile Elongation <sup>4</sup> (Break)	600	%	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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