

KRATON® D1133 K

Styrene Butadiene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton D1133 K is a clear, linear triblock copolymer based on styrene and butadiene, with a polystyrene content of 36%. It is supplied from North America in the physical form identified below.

Kraton D1133 KT - supplied as a dusted porous pellet

Kraton D1133 KIM - supplied as a dusted powder

Kraton D1133 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
Processing Method	Coating
	Compounding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D4025
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	< 1.0	g/10 min	
Antioxidant Additive ¹	0.15 to 0.40	%	Internal Method
Ash Content			Internal Method
KIM	4.0 to 6.0	wt%	
KT	0.2 to 0.4	wt%	
Polystyrene Content	34 to 38	%	Internal Method
Solution Viscosity - Toluene, 15%wt (25°C)	350 to 490	mPa · s	Internal Method
Total Extractables	< 1.6	%	Internal Method
Volatile Matter	< 1.0	%	Internal Method
Diblock Content	34.0		
Styrene/Rubber ratio	36/64		
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 (300% Strain)	2.07	MPa	ASTM D412
Tensile Strength (Yield)	20.7	MPa	ASTM D412
Tensile Elongation (Break)	800	%	ASTM D412
NOTE			
1.	Non-staining phenolic antioxidant		

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