

KRATON® D4433 P

Styrene Isoprene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton D4433 P is an oiled, linear triblock copolymer based on styrene and isoprene with a polystyrene content of 22%. It is supplied from North America in the physical form identified below.

Kraton D4433 PT - supplied as a dusted dense pellet

Kraton D4433 P is used as an ingredient in formulating adhesives, sealants and coatings. It may also find use as a modifier of bitumen and polymers.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Copolymer
Uses	Adhesives
	Coating Applications
	Compounding
	Plastics Modification
	Sealants
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Coating
	Compression Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D4025
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	25	g/10 min	
Antioxidant Additive ¹	0.080 to 0.20	%	Internal Method
Ash Content - T, Talc	0.30 to 0.40	%	Internal Method
Oil	22 to 25	%	Internal Method
Polystyrene Content	20 to 24	%	Internal Method
Solution Viscosity - Toluene, 25%w (25°C)	380	mPa · s	Internal Method
Volatile Matter	< 0.70	%	Internal Method
Diblock Content	20.0		
Styrene/Rubber ratio	22/78		
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec, Compression Molded)	29		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (300% Strain)	1.03	MPa	ASTM D412

Tensile Strength ³ (Yield)	6.21	MPa	ASTM D412
Tensile Elongation ⁴ (Yield)	1500	%	ASTM D412

NOTE

1. Primary antioxidant is a non-staining, phenolic antioxidant. The antioxidant package also contains a non-TNPP secondary antioxidant at a target level of 0.2% wt.

2. Measured on films cast from a solution in toluene.

3. Measured on films cast from a solution in toluene.

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

