

KRATON® D1184 E

Styrene Butadiene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton D1184 E is a clear, branched block copolymer based on styrene and butadiene with bound styrene of 30% mass. It is supplied from Europe in the physical forms identified as follows in the grade nomenclature:

D1184 ET - supplied as porous pellets dusted with talc

D1184 ES - supplied as porous pellets dusted with amorphous silica

D1184 ESM - supplied as powder dusted with amorphous silica

Kraton D1184 E polymer is used as a modifier of bitumen in roofing felt compounds, roads and pipe coating. It may also be suitable for use in formulating adhesives, sealants and coatings and in the modification of polymers.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Block Copolymer		
Uses	Adhesives		
	Asphalt Modification		
	Coating Applications		
	Pipe Coatings		
	Plastics Modification		
	Sealants		
Appearance	Clear/Transparent		
Forms	Pellets		
	Powder		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ISO 2781
Apparent Density	0.40	g/cm ³	ASTM D1895B
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	< 1.0	g/10 min	ISO 1133
Solution Viscosity ¹	1000 to 1400	mPa · s	Internal Method
Bound Styrene	29.0 to 31.0	%	Internal Method
Antioxidant Additive	> 0.14	%	Internal Method
Ash Content			ISO 247
ES, ET	< 0.40	%	
ESM	2.5 to 5.0	%	
Total Extractables	< 1.4	%	Internal Method
Volatile Matter	< 0.30	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 30 sec)	75		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	2.50	MPa	ISO 37
Tensile Stress (Break)	27.0	MPa	ISO 37
Tensile Elongation (Break)	820	%	ISO 37
NOTE			
1.	15.0%w Toluene, 25°C		

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