

# KRATON® D1101 E

Styrene Butadiene Styrene Block Copolymer

Kraton Polymers LLC

## Message:

Kraton D1101E polymer is a clear, linear block copolymer based on styrene and butadiene with bound styrene of 31% mass. It is supplied from Europe in the physical forms identified as follows in the grade nomenclature:

D1101 ET - supplied as porous pellets dusted with talc

D1101 ES - supplied as porous pellets dusted with amorphous silica

D1101 ESM - supplied as powder dusted with amorphous silica

Kraton D1101 E polymer is used as a modifier of bitumen in roofing felt coating 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 <sup>3</sup>	ISO 2781
Apparent Density	0.40	g/cm <sup>3</sup>	ASTM D1895B
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	< 1.0	g/10 min	ISO 1133
Solution Viscosity <sup>1</sup>	3000 to 5000	mPa · s	Internal Method
Bound Styrene	30.0 to 32.0	%	Internal Method
Antioxidant Additive	0.150 to 0.400		Internal Method
Ash Content			ISO 247
ES	0.15 to 0.40	%	
ESM	2.5 to 5.0	%	
ET	0.15 to 0.40	%	
Total Extractables	< 1.0	%	Internal Method
Volatile Matter	< 0.30	%	Internal Method
Hardness	Nominal Value	Unit	Test Method

Shore Hardness (Shore A, 30 sec)	72		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	2.90	MPa	ISO 37
Tensile Stress (Break)	33.0	MPa	ISO 37
Tensile Elongation (Break)	880	%	ISO 37
NOTE			
1.	25.0% Toluene, 25°C		

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