

KRATON® D1101 A

Styrene Butadiene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton D1101 A 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 AT - supplied as porous pellets dusted with talc

D1101 AS - supplied as porous pellets dusted with amorphous silica

D1101 ASM - supplied as powder dusted with amorphous silica

D1101 AIM - supplied as powder dusted with calcium carbonate for supply to the North American market

D1101 AU - supplied as porous pellets undusted

Kraton D1101 A 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		
	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	3000 to 5000	mPa · s	Internal Method
Bound Styrene	30.0 to 32.0	%	Internal Method
Antioxidant Additive	> 0.140		Internal Method
Ash Content			
AIM	2.5 to 4.5	%	Internal Method
AS	< 0.40	%	ISO 247
ASM	2.5 to 5.0	%	ISO 247
AT	< 0.40	%	ISO 247
AU	< 0.20	%	ISO 247

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 (Yield)	33.0	MPa	ISO 37
Tensile Elongation (Break)	880	%	ISO 37
NOTE			
1.	25%w Toluene, 25°C		

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