



K0519  
Berre

**KRATON™ D1101 E Polymer**

**Data Document**

Identifier : K519DDf21E

**Description**

Kraton D1101 E 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:

- Kraton D1101 ES - supplied as porous pellets dusted with amorphous silica
- Kraton D1101 ET - supplied as porous pellets dusted with talc
- Kraton D1101 ESM - supplied as powder dusted with amorphous silica

Kraton D1101 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.

**Sales Specifications**

<u>Property</u>	<u>Test Method</u>	<u>Units</u>	<u>Sales Specification Range</u>	<u>Notes</u>
Polystyrene Content	KM 03	%m	30.0 TO 32.0	
Vis, Sol (Toluene) 25.0%w @25C	KM 06	Pa.s	3.0 TO 5.0	
Total Extractables	KM 05	%m	≤ 1.0	
Antioxidant content	KM 08	%m	≥ 0.14	
Volatile Matter	KM 04	%m	≤ 0.3	
Ash (ES, ET)	ISO 247	%m	≤ 0.4	
Ash (ESM)	ISO 247	%m	2.5 TO 5.0	

**Typical Properties** (These are typical values and may not routinely be measured on finished product)

<u>Property</u>	<u>Test Method</u>	<u>Units</u>	<u>Typical Value</u>	<u>Notes</u>
Hardness, Shore A (30 sec)	ISO 868	Hardness, Shore A (30 sec)	72	b
300% Modulus	ISO 37	MPa	2.9	a
Elongation at Break	ISO 37	%	880	a
Specific Gravity	ISO 2781		0.94	
Bulk Density	ASTM D 1895 method B	kg/dm <sup>3</sup>	0.4	
Melt Flow Rate, 200°C/5kg	ISO 1133	g/10min.	< 1	
Tensile Strength	ISO 37	Mpa	33	a

**a** Measured on films cast from a solution in toluene

**b** Measured on compression moulded slabs