

PRE-ELEC[®] CP 1319

PRE-ELEC[®] CP 1319 is a conductive thermoplastic compound based on EVA. Conductivity is achieved by using special conductive carbon black. In addition to a low electrical resistivity PRE-ELEC[®] CP 1319 has excellent mechanical properties. Typical applications include extrusion process foams and blown film.

Processing

PRE-ELEC[®] CP 1319 can be extruded without modifications in the machines using normal processing conditions as with EVA. **Film blowing:**

- Temperature settings: 155 200°C
- Blowing ratio: > 1.80°C
- Screen pack: as coarse as possible
- Injection speed moderate

Extrusion:

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
Die	200°C	200°C	190°C	200°C	200°C	
	(390°F)	(390°F)	(375°F)	(390°F)	(390°F)	
Cylinder	180°C	180°C	190°C	190°C	200°C	200°C
	(355°F)	(355°F)	(375°F)	(375°F)	(390°F)	(390°F)
	1st	2nd	3rd			
Rolls	70°C	60°C	50°C			
	(160°F)	(140°F)	(120°F)			

These temperatures can be used for guidance purposes. They will also depend on the equipment used. The instructions of the equipment manufacturer should be followed. Pre-drying is recommended e.g. 2 - 4 hours at 60 - 80 °C (140 - 175 °F).

Packaging and storage

PRE-ELEC[®] CP 1319 is supplied in granule form, packed in 20kg polyethylene valve bags (1000kg on one-way pallet) or in 1100kg octabin. The product can be stored one year in it's original package. Packages should be stored indoors.

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Physical Properties

	10.0	11.21		40714	11.21	
PRE-ELEC° CP 1319	ISO	Unit		ASTM	Unit	
Specific gravity		g/cm ³	1.02			
Density					lb/in ³	0.037
Melt Flow Index	1133					
190°C / 5.0 kg		a/10min	1.0			
190°C / 10.0 kg		g/10min	4.5			
Tensile strength ⁽¹	527	MPa		D-638	psi	
machine direction			19			2800
trans-machine direction			15			2200
Yield strength ⁽¹	527	MPa		D-638	psi	
machine direction			13			1900
trans-machine direction			13			1900
Elongation at break ⁽¹	527	%		D-638	%	
machine direction			>600			>600
trans-machine direction			>600			>600
Elongation at yield ⁽¹	527	%		D-638	%	
machine direction			70			70
trans-machine direction			60		>600	60
Surface resistance ⁽¹	IEC	Ω	⊳10⁴	ANSI/ESD	Ω	⊳10⁴
	61340-2-3		210	STM 11.11		210

(1 test specimen: 80µm (3 mils) thick sheet The information in this data sheet represents typical values obtained by us and should not be regarded as a specification. We condition that the product will be inspected and qualified by the customer for his process to meet the specific requirements set by application, processing equipment and end product.