

Premix Thermoplastics PRE-ELEC® CP 1317

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate

Material Notes:

PRE-ELEC CP 1317 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 1317 has excellent mechanical properties and is suitable for film blowing. It is also suitable for coextrusion applications. Typical applications include blown film for the production of bags for electronic components and other products that are sensitive to static electricity. Information provided by Premix Thermoplastics Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PRE-ELEC-CP-1317.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	
Thickness	406 microns	16.0 mil	
Melt Flow	0.70 g/10 min @Load 5.00 kg, Temperature 190 °C	0.70 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	14.0 MPa	2030 psi	ISO 527
Film Tensile Strength at Yield, TD	12.0 MPa	1740 psi	ISO 527
Film Elongation at Break, MD	500 %	500 %	ISO 527
Film Elongation at Break, TD	500 %	500 %	ISO 527
Film Elongation at Yield, MD	50 %	50 %	ISO 527
Film Elongation at Yield, TD	35 %	35 %	ISO 527
Film Tensile Strength at Break, MD	19.0 MPa	2760 psi	ISO 527
Film Tensile Strength at Break, TD	15.0 MPa	2180 psi	ISO 527

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	400 um thick sheet; ISO D-257

Processing Properties	Metric	English	Comments
Melt Temperature	155 - 200 °C	311 - 392 °F	
Blow-up Ratio (BUR)	>= 1.8	>= 1.8	

Processing Properties	60.0 °C Metric	140 °F English	Comments
	@Time >=10800 sec	@Time >=3.00 hour	Produced for longer than 1 year
Moisture Content	<= 0.15 %	<= 0.15 %	When Produced
Shelf Life	12.0 Month	12.0 Month	Normal Storing Conditions

Descriptive Properties	Value	Comments
Appearance	Granule	
Color	Black	
Screen Pack	As coarse as possible	

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