

PRODUCT REFERENCE: *E-TEC*[®] PE 4329

DESCRIPTION: Electrically conductive compound based on a high loading of conductive carbon black in an ethylene copolymer blend

APPLICATIONS: *E-TEC*[®] PE 4329 is suggested for film extrusion down to 75 micron thickness where the article requires a level of permanent electrical conductivity. Such products find application in areas where the accumulation of static electrical charges on conventional polymers may cause problems, for example in the handling of static sensitive electronic devices or explosives. Film produced from *E-TEC*[®] PE 4329 can be fabricated by conventional methods of bag making, sealing etc.

ADDITION RATE: *E-TEC*[®] PE 4329 is designed for use as a compound at 100% addition rate. In some circumstances it may be possible to dilute this product with other polymers although this will invariably reduce the conductivity of the end article.

PROCESSING: Suggested extrusion and moulding temperatures are in line with those for unmodified ethylene copolymers, typically 120 to 190 °C. For some applications it may be found necessary to pre-dry this product using a temperature of up to 70 °C for 3 to 4 hours.

TYPICAL PROPERTIES:

Melt flow rate:	1 g/10 min. (190 ⁰ C/10 kg)	(ISO 1133)
Surface Resistance:	10 ³ ohm	(DIN 53482)
Volume resistivity:	10 ² ohm.cm	(ASTM D257)
Elongation at break:	215 %	(ISO 527)
Tensile strength: (100 micron film)	13 Mpa	(ISO 527)

Packaging: *E-TEC*[®] PE 4329 is normally packed in 25kg polyvalve bags. It should be stored in a clean dry area.

For Health and Safety information, please refer to the appropriate COLLOIDS Material Safety Data Sheet.

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