

## **PRODUCT REFERENCE: *E-TEC*<sup>®</sup> PC/ABS 13491**

**DESCRIPTION:** An electrically conductive compound based on a dispersion of a conductive carbon black in a modified polycarbonate. The electrical properties of products such as this are unaffected by atmospheric humidity and are normally permanent during the lifetime of a product.

**APPLICATIONS:** *E-TEC*<sup>®</sup> **PC/ABS 13491** is suggested for the extrusion of rigid sheet or tubing. This product may also be injection moulded. Such products find application in areas such as electronics assembly and explosives handling where permanent elimination of static electricity is required.

**ADDITION RATE:** *E-TEC*<sup>®</sup> **PC/ABS 13491** is designed for use as a compound at 100% addition rate. In some very limited 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 temperatures are in the range of 220 to 250 °C but are ultimately dependant on individual equipment. When injection moulding, generously sized gates will minimise any reduction in conductivity arising from processing. For some applications it may be found necessary to pre-dry this product using a temperature of up to 100 °C for 2 to 4 hours.

### **TYPICAL PROPERTIES:** (not a specification)

<b>Surface Resistance:</b>	1 x 10 <sup>5</sup> Ohm	(DIN 53482)
<b>Tensile strength: at break</b>	44 MPa	(ISO 527 )
<b>Elongation at break:</b>	15%	(ISO 527)
<b>Melt Flow Rate:</b>	9 g/10 mins	(ISO 1133 – 260 °C/10kg)

**Packaging:** *E-TEC*<sup>®</sup> **PC/ABS 13491** 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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