

THERMOLAST® K TC80EX-BLCK (Series: EC)
KRAIBURG TPE - Thermoplastic Elastomer
General Information
Product Description

The EC series is your material solution for applications with increased requirements on electrical conductivity. The materials come with very low resistivity and adhesion to polypropylene. The compounds are halogen-free according to IEC 61249-2-21. They are available in black colors only.

Typical applications

- Electric and electronic components
- Grip applications
- Stylus
- Grommets
- Flexible Connections
- ESD protection
- Dead man's switches
- Sensors

Material advantages

- Electrical conductivity
- Low resistivity
- Adhesion to PP
- Soft, non-sticky haptic
- Halogen-free (according to IEC 61249-2-21)
- In-process recycling possible

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Electrically Conductive • Good Adhesion • Halogen Free • Recyclable Material • Soft
Uses	• Connectors • Electrical/Electronic Applications • Flexible Grips • Grommets • Switches
Appearance	• Black
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.990	g/cm ³	ISO 1183
Spiral Flow ²	9.84	in	Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ³ (Break)	1160	psi	ISO 37
Tensile Elongation ³ (Break)	500	%	ISO 37
Tear Strength ⁴	188	lbf/in	ISO 34-1
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	83		ISO 48-4
Electrical	Nominal Value	Unit	Test Method
Electrical Resistivity	10.0		ISO 3915

Notes

¹ Typical properties: these are not to be construed as specifications.

² Mold Temperature: 392°F, Injection Pressure: 1.10E+4 psi

³ Type S2, 7.9 in/min

