THERMOLAST® K TC7NEG-BLCK (Series: EC/PA)

KRAIBURG TPE - *Thermoplastic Elastomer*

General Information

Product Description

The EC/PA series is your material solution for applications with requirements on electrical conductivity. The materials come with low resistivity and adhesion to polyamides and 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
- Stylus
- Grip applications
- Grommets
- Flexible Connections
- ESD protection
- Dead man's switches
- Sensors

Material advantages

- Electrical conductivity
- Low resistivity
- Adhesion to PA6 and PA6.6
- Soft, non-sticky haptic
- Adhesion to PP
- 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	0.970	g/cm³	ISO 1183
Spiral Flow [2]	21.7	in	Internal Method
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [3] (Break)	1310	psi	ISO 37
Tensile Elongation [3] (Break)	600	%	ISO 37
Tear Strength [4]	171	lbf/in	ISO 34-1
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	70		ISO 48-4
Electrical	**Nominal Value**	**Unit**	**Test Method**
Electrical Resistivity	< 1000		ISO 3915
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Adhesion to PA6 - (C)	7.00		VDI 2019
Adhesion to PA66 - (C)	6.50		VDI 2019