

Kostat E-2001 Conductive PP Compound

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

KOSTAT E-2001 is a conductive thermoplastic compound based on polypropylene. Conductivity is achieved by using a special conductive carbon black. In addition to a low electrical resistivity, E-2001 has excellent mechanical properties and is easy to extrude. Typical applications include extrusion of corrugated sheets and sheers for electronics packaging. KOSTAT E-2001 is not dependant on atmospheric conditions. Special Features This product exhibits high conductivity, easy processing, smooth sheet surface, and tight dimensional tolerances after forming. This makes KOSTAT E-2001 ideal for thermoforming various packaging products. Applications: KOSTAT E-2001 is recommended for electronics packaging such as ESD sheets, formed tray sheets, and other extruded products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kostat-E-2001-Conductive-PP-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Melt Flow	0.50 g/10 min @Load 5.00 kg, Temperature 230 Â°C	0.50 g/10 min @Load 11.0 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	75	75	ASTM D785
Tensile Strength, Yield	25.0 MPa	3630 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Strength	38.0 MPa	5510 psi	ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	ASTM D790
Izod Impact, Notched	6.85 J/cm	12.8 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	105 Â°C	221 Â°F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	Kostat Rv
Surface Resistivity per Square	1e+05	1e+05	Kostat Rs

Processing Properties	Metric	English	Comments
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Rear Barrel Temperature Processing Properties	210 Â°C Metric	410 Â°F English	C1 Comments
Middle Barrel Temperature	220 Â°C	428 Â°F	C3
Front Barrel Temperature	230 Â°C	446 Â°F	C5
Die Temperature	104 Â°C	220 Â°F	D3
	110 Â°C	230 Â°F	D5
	110 Â°C	230 Â°F	D1
Roll Temperature	60.0 Â°C	140 Â°F	3rd
	80.0 Â°C	176 Â°F	2nd
	90.0 Â°C	194 Â°F	1st

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