

Kostat E-3007J Conductive PS Compound

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

KOSTAT E-3007J is a conductive thermoplastic compound based on impact modified polystyrene and a special conductive carbon black. KOSTAT E-3007J 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 E3007J suitable for thermoforming various packaging products. Applications: KOSTAT E-3007J is recommended for electronics packaging such as ESD sheets, Carrier Tapes, Formed tray sheets, and other extruded products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kostat-E-3007J-Conductive-PS-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Melt Flow	5.0 g/10 min	5.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Â°C	@Load 11.0 lb, Temperature 392 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	70	70	ASTM D785
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	30.0 MPa	4350 psi	ASTM D790
Flexural Modulus	19.6 GPa	2840 ksi	ASTM D790
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 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
Rear Barrel Temperature	190 Â°C	374 Â°F	C1

Processing Properties	Metric	English	Comments
Front Barrel Temperature	210 Â°C	410 Â°F	C5
Die Temperature	87.8 Â°C	190 Â°F	D3
	93.3 Â°C	200 Â°F	D5
	93.3 Â°C	200 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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