

ECP 172

General Purpose Polystyrene

TBA Electro Conductive Products Ltd.

Message:

A wide range of polymer bases are employed to produce conductive plastics, including the polyolefines, nylons and ABS. Typical applications are illustrated using ECP 104 mineral filled conductive polypropylene which can be used to mould a variety of containers for static sensitive devices and PCB handling equipment. The mineral filler produces rigid mouldings with excellent dimensional stability.

Permanently conductive

Easily processed on conventional moulding equipment

Grades tailored to suit a variety of requirements.

General Information		
Features	Conductive	
	Good Dimensional Stability	
	Good Processability	
Uses	Containers	
Processing Method	Injection Molding	
Physical	Nominal Value	Unit
Density	1.07	g/cm ³
Melt Mass-Flow Rate (MFR)		
200°C/10.0 kg	6.0	g/10 min
200°C/5.0 kg	0.80	g/10 min
Mechanical	Nominal Value	Unit
Tensile Modulus	1560	MPa
Tensile Stress	15.4	MPa
Flexural Modulus	1410	MPa
Flexural Stress	30.6	MPa
Impact	Nominal Value	Unit
Charpy Notched Impact Strength	4.1	kJ/m ²
Charpy Unnotched Impact Strength	9.4	kJ/m ²
Thermal	Nominal Value	Unit
Heat Deflection Temperature		
0.45 MPa, Unannealed	81.0	°C
1.8 MPa, Unannealed	51.0	°C
Electrical	Nominal Value	Unit
Surface Resistivity	1.0E+4	ohms

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