

## Electrafil® PS-31/EC BK

Techmer Polymer Modifiers - *General Purpose Polystyrene*

### General

Material Status	• Commercial: Active
Availability	• North America
Features	• Conductive
Appearance	• Black
Processing Method	• Injection Molding

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.09	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ASTM D638
Tensile Strength (Yield)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	140	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6 to 1.0E+10	ohms	ASTM D257

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	82	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	191 to 202	°C
Middle Temperature	199 to 210	°C
Front Temperature	204 to 227	°C
Nozzle Temperature	204 to 227	°C
Processing (Melt) Temp	199 to 227	°C
Mold Temperature	38 to 60	°C
Injection Rate	Slow	
Back Pressure	0.00 to 0.345	MPa
Screw Speed	Slow	

