

Electrafil® PS-31/EC BK

Techmer Polymer Modifiers - General Purpose Polystyrene

General Information

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.09		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	275000	psi	ASTM D638
Tensile Strength (Yield)	3600	psi	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	2.6	ft-lb/in	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	180	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	375 to 395	°F
Middle Temperature	390 to 410	°F
Front Temperature	400 to 440	°F
Nozzle Temperature	400 to 440	°F
Processing (Melt) Temp	390 to 440	°F
Mold Temperature	100 to 140	°F
Injection Rate	Slow	
Back Pressure	0.00 to 50.0	psi
Screw Speed	Slow	

Notes

¹ Typical properties: these are not to be construed as specifications.

