Electrafil® PC-50/EC BK

Techmer Polymer Modifiers - *Polycarbonate*

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	1.20	g/cm³	
Melt Mass-Flow Rate (MFR) (300°C/5.0 kg)	17	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	8590	psi	ISO 527-2
Tensile Strain (Yield)	5.2	%	ISO 527-2
Flexural Modulus	377000	psi	ISO 178
Flexural Stress	13300	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (0.125 in)	2.9	ft·lb/in²	ISO 180
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	550 to 590	°F
Middle Temperature	560 to 600	°F
Front Temperature	570 to 610	°F
Nozzle Temperature	580 to 620	°F
Processing (Melt) Temp	560 to 615	°F
Mold Temperature	200 to 275	°F
Injection Rate	Slow-Moderate	
Back Pressure	25.0 to 75.0	psi
Screw Speed	Moderate	

Notes

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