

Electrafil® PA6/6 IM C BK

Techmer Polymer Modifiers - Polyamide 66

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Filler
Additive	• Impact Modifier
Features	• Conductive • High Impact Resistance
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.20		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.012	in/in	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Mechanical			
Tensile Strength (Yield)	11000	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	530000	psi	ASTM D790
Flexural Strength	19000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	2.0	ft·lb/in	ASTM D256
Hardness			
Rockwell Hardness (R-Scale)	99		ASTM D785
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	390	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	280	°F	ASTM D648
CLTE - Flow	3.3E-5	in/in/°F	ASTM D696
Electrical			
Surface Resistivity	1.0E+3 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+6	ohms·cm	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	2.0 to 4.0	%
Rear Temperature	510 to 580	°F
Middle Temperature	510 to 580	°F
Front Temperature	510 to 580	°F
Processing (Melt) Temp	500 to 540	°F
Mold Temperature	150 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm

