

Electrafil® PA6/6 GF10 BK

 Techmer Polymer Modifiers - *Polyamide 66*
General Information
General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Additive	• Lubricant
Features	• Conductive • Lubricated
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.020	in/in	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	15300	psi	ASTM D638
Tensile Elongation (Break)	2.6	%	ASTM D638
Flexural Modulus	64300	psi	ASTM D790
Flexural Strength	22400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.74	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	466	°F	ASTM D648
CLTE - Flow	3.0E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+8 to 1.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+8 to 1.0E+11	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

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