

Electrafil® PA12 CB

Techmer Polymer Modifiers - *Polyamide 12*

General Information

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.010	in/in	ASTM D955
Water Absorption (24 hr)	0.23	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7000	psi	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	255000	psi	ASTM D790
Flexural Strength	11000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.5	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ASTM D648
CLTE - Flow	9.0E-6	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6 to 1.0E+8	ohms	ASTM D257
Volume Resistivity	1.0E+5 to 1.0E+7	ohms·cm	ASTM D257
Additional Information	Nominal Value	Unit	Test Method
TPCI #	9872105		

Notes

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

