

Electrafil® PA12

Techmer Polymer Modifiers - *Polyamide 12*

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Stainless Steel Fiber
Features	• Conductive
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.08		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.010	in/in	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7400	psi	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	175000	psi	ASTM D790
Flexural Strength	11800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	2.5	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	130	°F	ASTM D648
CLTE - Flow	9.0E-6	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	ASTM D257
Volume Resistivity	1.0E+2	ohms·cm	ASTM D257
Additional Information	Nominal Value	Unit	Test Method
TPCI #	9873105		

Notes

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

