

Electrafil® PA12

Polyamide 12

Techmer Engineered Solutions

Message:

Electrafil® PA12 is a Polyamide 12 (Nylon 12) product filled with stainless steel fiber. It can be processed by injection molding and is available in North America. Primary characteristic: conductive.

General Information			
Filler / Reinforcement	Stainless Steel Fiber		
Features	Conductive		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.0	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	51.0	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	1210	MPa	ASTM D790
Flexural Strength	81.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	54.4	°C	ASTM D648
CLTE - Flow	1.6E-5	cm/cm/°C	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		
TPCI #	9873105		

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Recommended distributors for this material

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