

Electrafil® TPX-HTN-01045 A

Polyamide
Techmer Engineered Solutions

Message:

Electrafil® TPX-HTN-01045 A is a Polyamide product filled with 40% carbon fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Heat Stabilizer
High Strength
Lubricated

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Additive	Heat Stabilizer		
	Lubricant		
Features	Heat Stabilized		
	High Temperature Strength		
	Lubricated		
UL File Number	E157318		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	310	MPa	ASTM D638
Tensile Elongation (Break)	1.3	%	ASTM D638
Flexural Modulus	31000	MPa	ASTM D790
Flexural Strength	455	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	282	°C	ASTM D648
CLTE - Flow	3.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+4	ohms · cm	ASTM D257

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Recommended distributors for this material

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