

Electrafil® TPX-HTN-01045 A

Techmer Polymer Modifiers - *Polyamide*

General Information

General

Material Status	• Commercial: Active
Availability	• North America
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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.39		ASTM D792
Water Absorption (24 hr)	0.22	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	45000	psi	ASTM D638
Tensile Elongation (Break)	1.3	%	ASTM D638
Flexural Modulus	4.50E+6	psi	ASTM D790
Flexural Strength	66000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.8	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	540	°F	ASTM D648
CLTE - Flow	1.9E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+4	ohms·cm	ASTM D257

Notes

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

