

Electrafil® TPX-PAA-05023

Techmer Polymer Modifiers - *Polyamide*

General Information

Product Description

Partially Aromatic Nylon

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight
Features	• Heat Stabilized • Lubricated
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.35		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	35000	psi	ASTM D638
Tensile Elongation (Break)	1.3	%	ASTM D638
Flexural Modulus	3.30E+6	psi	ASTM D790
Flexural Strength	56000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.3	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	125		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	460	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	435	°F	ASTM D648
CLTE - Flow	1.9E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0 to 1.0E+3	ohms·cm	ASTM D257

Notes

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

