

Electrafil® TPX-PAA-05023

Polyamide
Techmer Engineered Solutions

Message:
Partially Aromatic Nylon

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Heat Stabilized		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	241	MPa	ASTM D638
Tensile Elongation (Break)	1.3	%	ASTM D638
Flexural Modulus	22800	MPa	ASTM D790
Flexural Strength	386	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	238	°C	
1.8 MPa, Unannealed	224	°C	
CLTE - Flow	3.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0 to 1.0E+3	ohms · cm	ASTM D257

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