

INELEC PA6CF10

Polyamide 6

Infinity LTL Engineered Compounds

Message:

Inelec carbon fiber, carbon powder, stainless steel fiber, nickel coated carbon fiber and antistatic alloy electrically active compounds

Offered in all Infinity base resins

Provide electrostatic discharge and electrical conductivity. EMI and RFI shielding compounds available

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Features	Electrically Conductive		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Specific Volume	0.855	cm ³ /g	
Molding Shrinkage - Flow	0.50 to 0.60	%	ASTM D955
Water Absorption (24 hr)	1.5	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	138	MPa	ASTM D638
Tensile Elongation (Yield)	3.0 to 4.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	214	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	199	°C	ASTM D648
CLTE - Flow	4.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	249 to 288	°C	
Mold Temperature	93.3	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.013 to 0.025	mm	

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