

# INELEC PA12CF20

Polyamide 12  
Infinity LTL Engineered Compounds

Message:  
INELEC PA12CF20 is a Polyamide 12 (Nylon 12) product filled with 20% carbon fiber. It is available in North America.

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10 to 0.30	%	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	112	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	8620	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Unnotched Izod Impact	530 to 640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	163	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+17	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	227 to 238	°C	
Mold Temperature	71.1 to 82.2	°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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