



## InElec® PA612CF30

**MATERIAL STATUS** Commercial: Active

**AVAILABILITY** Africa & Middle East, Asia Pacific, Europe, Latin America, North America

**FILLER / REINFORCEMENT** Carbon Fiber, 30% Filler by Weight

**FEATURES** Electrically Conductive, ESD Protection, Filled, Good Dimensional Stability, High Stiffness, High Strength, Permanent Antistatic

**USES** Closures, Connectors, Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Household Goods, Industrial Applications, Industrial Parts, Office Automation Equipment, Outdoor Applications

**FORMS** Pellets

**PROCESSING METHOD** Injection Molding

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.21	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10 to 0.30	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Modulus	1930	MPa	ASTM D638
Tensile Strength	200	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength	331	MPa	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact	96	J/m	ASTM D256
Unnotched Izod Impact	850	J/m	ASTM D4812
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 1.8 MPa, Unannealed	218	°C	ASTM D648
ELECTRICAL	NOMINAL VALUE	UNIT	TEST METHOD
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257



<b>INJECTION</b>	<b>NOMINAL VALUE</b>	<b>UNIT</b>
Drying Temperature	79	°C
Drying Time	4.0	hr
Processing (Melt) Temp	266 to 277	°C
Mold Temperature	93	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm

**NOTES**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

