



InLube® PA612CF30TF13SI2

PRODUCT DESCRIPTION InLube® PA612CF30TF13SI2 is a PA612 copolymer reinforced with 30% carbon fiber, and lubricated with 13% PTFE and 2% silicone

MATERIAL STATUS Commercial: Active

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

FILLER / REINFORCEMENT Carbon Fiber, 30% Filler by Weight, PTFE, 13% Filler by Weight

ADDITIVE Silicone Lubricant: 2%

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	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20 to 0.40	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Modulus	1930	MPa	ASTM D638
Tensile Strength	172	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	17900	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



INJECTION	NOMINAL VALUE	UNIT
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

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

