



InStruc® PA66PA6IGF50HS

PRODUCT DESCRIPTION 50% GLASS FIBER REINFORCED, HEAT STABILIZED NYLON 6/6 + NYLON 6I/6T

MATERIAL STATUS Commercial: Active

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

FILLER / REINFORCEMENT Glass Fiber, 50% Filler by Weight

ADDITIVE Heat Stabilizer

FEATURES Filled, Good Dimensional Stability, Heat Stabilized, High Stiffness, High Strength

USES Closures, Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Household Goods, Industrial Applications, Industrial Parts, Office Automation Equipment, Outdoor Applications, Window & Door Components

FORMS Pellets

PROCESSING METHOD Injection Molding

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.58	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.50	%	ASTM D955
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Modulus	15900	MPa	ASTM D638
Tensile Strength	214	MPa	ASTM D638
Tensile Elongation (Yield)	3.0	%	ASTM D638
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength	331	MPa	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (3.18 mm)	130	J/m	ASTM D256
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 1.8 MPa, Unannealed	249	°C	ASTM D648
ELECTRICAL	NOMINAL VALUE	UNIT	TEST METHOD
Surface Resistivity	1.0E+17	ohms	ASTM D257



INJECTION	NOMINAL VALUE	UNIT
Drying Temperature	79	°C
Drying Time	4.0	hr
Processing (Melt) Temp	271 to 299	°C
Mold Temperature	82 to 121	°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.

