



## InLube® PA612SI2

**PRODUCT DESCRIPTION** 2% SILICONE LUBRICATED NYLON 6/12

**MATERIAL STATUS** Commercial: Active

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

**ADDITIVE** Silicone Lubricant: 2%

**FEATURES** Low Friction, Lubricated

**USES** Closures, 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	1.06	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.1 to 1.5	%	
Water Absorption (24 hr)	0.25	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Strength (Break)	64.8	MPa	ASTM D638
Tensile Elongation (Break)	4.0 to 8.0	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	81.4	MPa	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact	48	J/m	ASTM D256
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 1.8 MPa, Unannealed	55.0	°C	ASTM D648
INJECTION	NOMINAL VALUE	UNIT	
Drying Temperature	79	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	232 to 271	°C	
Mold Temperature	66 to 82	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.013 to 0.025	mm	

### NOTES

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

