

Sogun[®] A3G50H

Product Information

Nylon Excellent impact resistance, thermal stability and hydrolysis resistance.

Properties	Test Method	Unit	Value
Mechanical Properties			dry/cond.
Tensile modulus	ISO 527-1/-2	MPa	17000/13000
Stress at break	ISO 527-1/-2	MPa	240/180
Strain at break	ISO 527-1/-2	%	2.5/3.5
Flexural modulus	ISO 178	MPa	15000/13000
Flexural strength	ISO 178	MPa	360/300
Izod notched impact strength, +23°C	ISO 180/1A	KJ/m ²	13/14
Izod notched impact strength, -30°C	ISO 180/1A	KJ/m ²	10/9
Thermal Properties			
HDT 1.8MPa	ISO 75	°C	250
HDT 0.45MPa	ISO 75	°C	260
Maximum temperature, short cycle	–	°C	240
Flame resistant, 1.5mm	UL 94	Class	HB
Electrical Properties			dry/cond.
Relative permittivity, 1MHz	IEC 62631-2-1	–	3.8/6.5
Volume resistivity	IEC 62631-3-1	Ohm.m	1E13/1E10
Surface resistivity	IEC 62631-3-2	Ohm	1E12/1E10
Other Properties			
Density	ISO 1183	g/cm ³	1.56
Humidity absorption, 2mm	Sim. to ISO 62	%	1.0 - 1.4
Molding shrinkage	ISO 2577	%	0.45
Processing			
Drying temperature	4hr	°C	80
Melt temperature	–	°C	270 - 290
Mould temperature	–	°C	70 - 90

06/2022

Sogun[®] provided information about the product, whether data, advice or other information, are researched and trustworthy. Since there are many influencing factors in the production process, it is recommended that users test themselves before production. Standard values are only symbolic and should not be construed as binding specifications.