

# Sogun<sup>®</sup> B3G50H

## Product Information

Nylon Excellent impact resistance, thermal stability and hydrolysis resistance.

Properties	Test Method	Unit	Value
<b>Mechanical Properties</b>			dry/cond.
Tensile modulus	ISO 527-1/-2	MPa	16000/11000
Stress at break	ISO 527-1/-2	MPa	230/160
Strain at break	ISO 527-1/-2	%	2.5/4
Flexural modulus	ISO 178	MPa	15000/10000
Flexural strength	ISO 178	MPa	320/230
Izod notched impact strength, +23°C	ISO 180/1A	KJ/m <sup>2</sup>	20/24
Izod notched impact strength, -30°C	ISO 180/1A	KJ/m <sup>2</sup>	15/17
<b>Thermal Properties</b>			
HDT 1.8MPa	ISO 75	°C	200
HDT 0.45MPa	ISO 75	°C	220
Maximum temperature, short cycle	–	°C	190
Flame resistant, 1.5mm	UL 94	Class	HB
<b>Electrical Properties</b>			dry/cond.
Relative permittivity, 1MHz	IEC 62631-2-1	–	4.2/6.1
Volume resistivity	IEC 62631-3-1	Ohm.m	1E13/1E10
Surface resistivity	IEC 62631-3-2	Ohm	1E13/1E10
<b>Other Properties</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.56
Humidity absorption, 2mm	Sim. to ISO 62	%	1.2 - 1.6
Molding shrinkage	ISO 2577	%	0.3
<b>Processing</b>			
Drying temperature	4hr	°C	80
Melt temperature	–	°C	260 - 280
Mould temperature	–	°C	70 - 90

06/2022

Sogun<sup>®</sup> 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.