

Solon[®] A3G50

Product Information

Nylon excellent impact resistance and heat resistance.

Properties	Test method	Unit	Value
Mechanical Properties			
Tensile Modulus	ISO 527	MPa	16000
Stress at Break	ISO 527	MPa	230
Strain at Break	ISO 527	%	2.5
Flexural Modulus	ISO 178	MPa	15000
Flexural Strength	ISO 178	MPa	380
Izod Notched Impact Strength +23°C	ISO 180/1A	KJ/m ²	13
Izod Notched Impact Strength -30°C	ISO 180/1A	KJ/m ²	11
Ball Hardness	ISO 2039-1	MPa	300
Thermal Properties			
HDT 1.8MPa	ISO 75	°C	250
HDT 0.45MPa	ISO 75	°C	250
Maximum Temperature (Short Cycle)	–	°C	240
Flame Resistant, 1.5mm	UL 94	Class	HB
Electrical Properties			
Relative Permittivity, 1MHz	IEC 60250	–	3.8
Volume Resistivity	IEC 60093	Ω•cm	1E13
Surface Resistivity	IEC 60093	Ω	1E12
Other Properties			
Density	ISO 1183-1	g/cm ³	1.55
Water Absorption	–	%	1.0~1.4
Molding Shrinkage	–	%	0.45
Processing			
Drying Temperature	4hr	°C	80~100
Melt Temperature	–	°C	280~300
Mould Temperature	–	°C	70~90

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Sogun[®] provided information about the product, regardless of the data, recommendations or other information, is supported by research, trustworthy. Since there are many factors in the production process, it is recommended that automatically detects the user before production. Standard values are indicative only and are not to be construed as binding norms.