

PA6, excellent impact resistance, strength, stiffness, high temperature resistance, developed using Sogun super toughened technology.

Properties	Typical Value	Units	Test Method
Mechanical Properties			
	dry / cond.		
Tensile Modulus, 1 mm/min	8000 / 4000	MPa	ISO 527-1/-2
Tensile Stress at Break, 50 mm/min	120 / 65	MPa	ISO 527-1/-2
Tensile Strain at Break, 50 mm/min	3.5 / 5	%	ISO 527-1/-2
Flexural Modulus, 2 mm/min	6000 / 3500	MPa	ISO 178
Flexural Strength, 2 mm/min	200 / 110	MPa	ISO 178
Charpy Notched Impact Strength, +23°C	18 / 23	KJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	10 / 9	KJ/m ²	ISO 179/1eA
Thermal Properties			
Melting Temperature, 10°C/min	220	°C	ISO 11357-1/-3
Temperature of Deflection Under Load, 1.8 MPa	190	°C	ISO 75-1/-2
Temperature of Deflection Under Load, 0.45 MPa	200	°C	ISO 75-1/-2
Flame Resistant, 1.5 mm	HB	Class	UL 94
Electrical Properties			
	dry / cond.		
Relative Permittivity, 1 MHz	3.8 / 6.8	-	IEC 62631-2-1
Volume Resistivity	1E13 / 1E10	Ohm.m	IEC 62631-3-1
Surface Resistivity	1E12 / 1E10	Ohm	IEC 62631-3-2
Physical Properties			
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage, 2.0 mm, Parallel / Normal	0.4 / 1.1	%	ISO 294-4
Humidity Absorption, 23°C / 50% RH	1.7	%	Sim. to ISO 62
Injection Molding			
Drying Temperature	80	°C	4 hours
Melt Temperature	250 - 280	°C	-
Mould Temperature	70 - 100	°C	-

Revised: 06/26/2024

Sogun[®] provided information about the product, whether data, recommendations or other information, is researched and trustworthy. Since there are many influencing factors in the production process, users are advised to conduct their own tests before production. The standard values are for reference only and should not be regarded as binding specifications.

Find more information or contact us at www.sogun.com