

PA6, excellent processability, heat stabilized and hydrolysis resistance, non-halogenated, flame retardant, suitable for extrusion.

Properties	Typical Value	Units	Test Method
Mechanical Properties			
	dry / cond.		
Tensile Modulus, 1 mm/min	3200 / 1200	MPa	ISO 527-1/-2
Tensile Stress at Yield, 50 mm/min	65 / 35	MPa	ISO 527-1/-2
Tensile Strain at Yield, 50 mm/min	4 / 20	%	ISO 527-1/-2
Nominal Tensile Strain at Break, 50 mm/min	6 / >50	%	ISO 527-1/-2
Flexural Modulus, 2 mm/min	2800 / 1100	MPa	ISO 178
Flexural Strength, 2 mm/min	85 / 40	MPa	ISO 178
Charpy Notched Impact Strength, +23°C	5 / 11	KJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	4 / 3	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	65	°C	ISO 75-1/-2
Temperature of Deflection Under Load, 0.45 MPa	180	°C	ISO 75-1/-2
Flame Resistant, 0.8 mm	V-0	Class	UL 94
Electrical Properties			
	dry / cond.		
Relative Permittivity, 1 MHz	3.6 / 6	-	IEC 62631-2-1
Volume Resistivity	1E13 / 1E9	Ohm.m	IEC 62631-3-1
Surface Resistivity	1E13 / 1E12	Ohm	IEC 62631-3-2
Physical Properties			
Density	1.16	g/cm ³	ISO 1183
Humidity Absorption, 23°C / 50% RH	2.4	%	Sim. to ISO 62
Extrusion			
Drying Temperature	80	°C	4 hours
Melt Temperature	230 - 260	°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