

Nylon Plastic DATA SHEET

Mechanical Property

Property	Unit	Nylon 6	Nylon Anti Static	Nylon Conductivity
Density	g/m ³	1.13	1.12	1.24
Long Term Working Temperature	°C	85	100	105
Yield Stretch Strength	Mpa	74	50	55
Beaking Stretch Strength	Mpa	50		60
Beaking Stretch Rate	%	5	100	5
Bending Modulus	Mpa	2200	2200	2200
Hardness	Mpa	85		
Impact Strength	KJ/m ²	50	45	45

Thermal Property

Melting Point	°C	220.00	238.00	340.00
Heat Deflection Temperature	°C		88.00	90.00
Max Operating Temperature (Short)	°C	160.00	110.00	120.00
Thermal Conductivity	W(K-M)	0.23		
Coefficient Of Linear Expansion	10 ⁻⁵ -1/K	8.00		

Electrical Features

Dielectric Constant	—	4.20		
Dielectric Loss Constant	—	0.03		
Volume Resistance	Ω.cm	10 ¹²	10 ⁸	10 ⁴
Surface Resistance	Ω	10 ¹³	10 ⁸	10 ⁴
Dielectric Streng	KV-mm	25.0		

Chemical Features

Balance Water Absorption	%	1.3	1.20	1.50
Acid Resistance		—	—	—
Alkali Resistance		+	+	+
Acid and Alkali Water Resistance		+	+	+
Chlorine with acid and Alkali Resistance		0.00	0.00	0.00
Aromatic Compound Resistance		+	+	+
Ketone Resistance		+	+	+
Hot Water Resistance		+	+	+

Other Property

Combustibility		HB	HB	HB
Adhesion		+	+	+
Non-toxic Harmless Sexual		+	—	—
Friction Coefficient		0.4		

Ultraviolet UV Resistance		-		

Remark:

1. "+" mean anti, "-" mean none, "0" mean it depends on reality testing conditions.
2. Above data are provided by the raw material suppliers, not guarantee the uniqueness.
3. Above data can not be regarded as the additional term for the contract
4. These products we mentioned are not suitable for medicine and tooth transplantation