PA66 - Polyamide66

A crystalline engineering plastic.
A material with high strength and low friction coefficient.
Excellent wear resistance, oil resistance, alongside self extinguishing properties(UL94V-2).
Unfortunately not resistant to strong acids. High water absorption needs to be factored in for its environmental usage.

Continuous Use Temperature	95℃/203℉
Flame Retardant Grade	UL94 V-2

Torsional fracture torque unit: Nm

Head Type	M2	M3	M4	M5	M6	M8	M10	M12
Hexagon Head		0.15	0.4	0.75	1.28	2.85	6.25	10.25
Socket Hex Head		0.13	0.23	0.68	1.08	2.38	2.53	-
Slotted Countersunk Head		0.1	0.33	0.75	0.75	1.78	2.33	-
Cross Countersunk Head		0.15	0.35	0.68	1.28	1.95	4.53	-

Tensile Fracture Load : N

Head Type	M2	M3	M4	M5	M6	M8	M10	M12
Hexagon Head			416	662	578	1767	3463	4022

The flash (end stump) of the bolt length (L) is less than or equal to 5%
If bolts are used with nuts, we recommend using bolts and nuts of the same material.

Table contains reference values. These are not guaranteed
Please use a torque wrench for tightening. The recommended tightening torque is 50% of the breaking torque.

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Polyamide 66 (PA666) Properties

Property	Nominal Value	Unit	Test Method
Tensile Modulus (dry)	3600	MPa	ISO 527-1/-2
Tensile Modulus (cond)	1600	MPa	ISO 527-1/-2
Yield Stress (dry)	85	MPa	ISO 527-1/-2
Yield Stress (cond)	50	MPa	ISO 527-1/-2
Yield Strain (dry)	4	%	ISO 527-1/-2
Yield Strain (cond)	15	%	ISO 527-1/-2
Charpy Impact Strength (+23°C)	75	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength (+23°C)	4	kJ/m²	ISO 179/1eA
Melting Temperature	260	°C	ISO 11357-1/-3
Deflection Temp. under Load (1.8 MPa)	70	°C	ISO 75-1/-2
Deflection Temp. under Load (0.45 MPa)	210	°C	ISO 75-1/-2
Oxygen Index	35	%	ISO 4589-1/-2
Burning Behavior (1.5mm)	V-0		IEC 60695-11-10
Volume Resistivity (dry)	1E11	Ohm*m	IEC 62631-3-1

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