

PPS - Polyphenylene sulfide



A crystalline special engineering plastic.
It has excellent heat resistance, allowing extended use time in high-temperature environments.
Excellent chemical resistance, mechanical properties & electrical properties.

Continuous Use Temperature
Flame Retardant Grade

200°C/392°F
UL94 V-0

Torsional fracture torque unit: Nm

Head Type	M2	M3	M4	M5	M6	M8	M10	M12
Hexagon Head	-	0.25	0.63	1.12	2.08	4.77	12.5	24.75
Socket Hex Head	-	0.27	0.5	1.25	2.1	4.97	7.25	-
Slotted Countersunk Head	-	0.25	0.5	1.12	-	3.1	4.22	-
Cross Countersunk Head	-	0.3	0.52	1	1.58	4.9	12.5	-

Tensile Fracture Load : N

Head Type	M2	M3	M4	M5	M6	M8	M10	M12
Hexagon Head			121	208	306	430		

➡ **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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Polyphenylene Sulfide (PPS) Properties

Property	Nominal Value	Unit	Test Method
Density	1650	kg/m ³	ISO 1183
Mold Shrinkage (parallel)	0.2-0.6	%	ISO 294-4
Water Absorption (23°C-sat)	0.02	%	ISO 62
Tensile Modulus	14,700	MPa	ISO 527-2/1A
Tensile Stress at Break	195	MPa	ISO 527-2/1A
Tensile Strain at Break	1.9	%	ISO 527-2/1A
Flexural Modulus	14,500	MPa	ISO 178
Flexural Stress at Break	285	MPa	ISO 178
Charpy Impact Strength (23°C)	53	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eA
Melting Temperature	280	°C	ISO 11357-1,-2,-3
Glass Transition Temperature	90	°C	ISO 11357-1,-2,-3
DTUL (1.8 MPa)	270	°C	ISO 75-1/-2
Flammability Rating (1.6mm)	V-0		UL94
Volume Resistivity	>1E13	Ohm*m	IEC 60093

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