

## POM - Poly(oxymethylene); Polyformaldehyde



A thermoplastic with excellent chemical properties and corrosion resistance to all chemicals. With excellent electrical and mechanical properties. The coefficient of friction is extremely low. Its electrical insulation is not affected by temperature. Extended use at -80~260°C. Known as the "King of Plastics".

Continuous Use Temperature  
Flame Retardant Grade

98°C/209°F  
UL94 V-2

**Torsional fracture torque unit: Nm**

Head Type	M2	M3	M4	M5	M6	M8	M10	M12
Hexagon Head	-	-	0.14	0.2	0.45	0.75	-	-
Socket Hex Head	-	-	0.1	0.2	0.4	0.83	-	-
Slotted Countersunk Head	-	-	0.07	0.09	0.15	0.65	-	-
Cross Countersunk Head	-	-	0.08	0.1	0.18	0.38	-	-

**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.

## Polyoxymethylene (POM) Properties

Property	Nominal Value	Unit	Test Method
Melt Volume-Flow Rate	6	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage (parallel)	1.9	%	ISO 294-4, 2577
Molding Shrinkage (normal)	1.8	%	ISO 294-4, 2577
Tensile Modulus	3300	MPa	ISO 527-1/-2
Yield Stress	74	MPa	ISO 527-1/-2
Yield Strain	15	%	ISO 527-1/-2
Charpy Impact Strength (+23°C)	300	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Notched Impact Strength (+23°C)	9	kJ/m <sup>2</sup>	ISO 179/1eA
Melting Temperature	178	°C	ISO 11357-1/-3
Deflection Temperature (1.80 MPa)	103	°C	ISO 75-1/-2
Vicat Softening Temperature	160	°C	ISO 306
Burning Behavior (1.5mm thickness)	HB		IEC 60695-11-10
Water Absorption	0.9	%	Sim. to ISO 62
Density	1420	kg/m <sup>3</sup>	ISO 1183



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