PTFE - Polytetrafluoroethylene







PTFE has excellent chemical stability, corrosion resistance, almost insoluble in all solvents. Heat/Cold resistance care known properties. Alongside self-lubrication and low friction coefficient.

Continuous Use Temperature Flame Retardant Grade 260°C/500°F UL94 V-0

Torsional fracture torque unit: Nm

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Head Type	M2	М3	M4	M5	M6	M8	M10	M12
N	frances	State of the second sec	and a start of the			7		-
Hexagon Head	Conservation of the second	-	0.15	0.25	0.45	1 -	2.5	3
Socket Hex Head	0	0.05	0.1	0.2	0.25	0.68	1.15	-
Slotted Countersunk Head	N.	-	0.1	0.2	0.35	0.65	0.95	-
Cross Countersunk Head	S	-	0.05	0.1	0.25	0.35	0.93	-

Tensile Fracture Load : N

Head Type	M2	М3	M4	M5	M6	M8	M10	M12
Hexagon Head			110	162	256	450	842	992.5
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				Sand I	Sec. 11		A ALL ALL	

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 guaranteedPlease use a torque wrench for tightening. The recommended tightening torque is 50% of the breaking torque.



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Polytetrafluoroethylene (PTFE) Properties

Property	Nominal Value	Unit	Test Method	
Density	2.15	g/cm ³	ISO 1183	
Water Absorption	< 0.01	%	ISO 62	
Tensile Strength	25-35	MPa	ISO 527	
Elongation at Break	200-400	%	ISO 527	
Compressive Strength	24	MPa	ASTM D695	
Flexural Modulus	500-700	MPa	ISO 178	
Coefficient of Friction	0.05-0.10	1 (ASTM D1894	
Melting Temperature	327	°C	ISO 11357-3	
Glass Transition Temperature	-100 to -110	°C	ISO 11357-2	
Continuous Use Temperature	260	°C	ISO 2578	
Flame Retardant Rating	UL94 V-0		UL 94	
Thermal Conductivity	0.25	W/mK	ASTM E1530	
Volume Resistivity	1.0E+18	ohm∙cm	ASTM D257	
Oxygen Index	95	%	ASTM D2863	
Dielectric Constant	2.1-2.2	1	ASTM D150	

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