

Datablad for DIN976-Polyamid

Produkt:

Polyamid gevindstang med helgevind.

Materiale:

Polyamid 66 (DIN PA 66). For nærmere materiale egenskaber se vedhæftede bilag.

Byggevareridentifikation:

Etiket/følgeseddel angiver produkttype, dimension, længde, "Polyamid". Eks. DIN 976-Polyamid. M16x1000.

Anvendelse/anvendelsesområde:

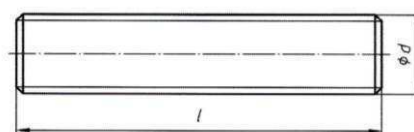
Anvendes primært i maskindele.

Form:

Standard leveres hellængder iht. form A, og gevindstykker iht. form B.



Form A iht. EN ISO 4753:2011



Form B iht. EN ISO 4753:2011

Gevind:

Metrisk gevind. Gevind tolerance iht. ISO 965-4, toleranceklasse 6az.

Længde:

Leveres i standardmål på 1 meter. Kan bestilles på fix-mål.

Længde tolerance iht. EN ISO 4759-1, toleranceklasse A (længdetolerance js17 ved L≥150mm.)

Teknisk information:

Gevind, ød [mm]	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24	M30
Stigning [mm]	0,7	0,8	1,0	1,25	1,50	1,75	2,0	2,0	2,5	2,5	3,0	3,5
Spændingsareal [mm ²]	8,78	14,2	20,1	36,6	58,0	84,3	115	157	192	245	353	561

Referencer:

Gevindstykker DIN976-1

ISO Metrisk gevind – Tolerancer DS/ISO 965-4

Befæstelselementer – Skrueender DS/EN ISO 4753

Befæstelselementer – Tolerancer DS/EN ISO 4759-1

TECAMID 66 natural - Stock Shapes

Chemical Designation

PA 66 (Polyamide 66)

Colour

ivory opaque

Density

1.15 g/cm³

Data generated directly after machining (standard climate Germany).

Main features

- good slide and wear properties
- electrically insulating
- good wear properties
- high strength
- good weldable and bondable
- resistant to many oils, greases and fuels
- high toughness

Target Industries

- mechanical engineering
- aircraft and aerospace technology
- electronics
- food technology
- automotive industry

Mechanical properties	parameter	value	unit	norm	comment
Modulus of elasticity (tensile test)	1mm/min	3500	MPa	DIN EN ISO 527-2	1)
Tensile strength	50mm/min	85	MPa	DIN EN ISO 527-2	
Tensile strength at yield	50mm/min	84	MPa	DIN EN ISO 527-2	
Elongation at yield	50mm/min	7	%	DIN EN ISO 527-2	
Elongation at break	50mm/min	70	%	DIN EN ISO 527-2	
Flexural strength	2mm/min, 10 N	110	MPa	DIN EN ISO 178	2)
Modulus of elasticity (flexural test)	2mm/min, 10 N	3100	MPa	DIN EN ISO 178	
Compression strength	1% / 2% / 5% 5mm/min, 10 N	20/35/81	MPa	EN ISO 604	3)
Compression modulus	5mm/min, 10 N	2700	MPa	EN ISO 604	4)
Impact strength (Charpy)	max. 7,5J	n.b.	kJ/m ²	DIN EN ISO 179-1eU	5)
Notched impact strength (Charpy)	max. 7,5J	5	kJ/m ²	DIN EN ISO 179-1eA	
Ball indentation hardness		175	MPa	ISO 2039-1	6)
Thermal properties	parameter	value	unit	norm	comment
Glass transition temperature		47	°C	DIN EN ISO 11357	1)
Melting temperature		258	°C	DIN EN ISO 11357	
Service temperature	short term	170	°C		2)
Service temperature	long term	100	°C		
Thermal expansion (CLTE)	23-60°C, long.	11	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
Thermal expansion (CLTE)	23-100°C, long.	12	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2	
Specific heat		1.5	J/(g*K)	ISO 22007-4:2008	
Thermal conductivity		0.36	W/(K*m)	ISO 22007-4:2008	
Electrical properties	parameter	value	unit	norm	comment
Specific surface resistance		10 ¹⁴	Ω	DIN IEC 60093	
Specific volume resistance		10 ¹⁴	Ω*cm	DIN IEC 60093	
Other properties	parameter	value	unit	norm	comment
Water absorption	24h / 96h (23°C)	0.2 / 0.4	%	DIN EN ISO 62	1)
Resistance to hot water/ bases		(+)	-	-	2)
Resistance to weathering		-	-	-	3)
Flammability (UL94)	corresponding to	HB		DIN IEC 60695-11-10;	4)

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