

Description

Material:

Polyacetal (POM) or polyketone (PK).

Version:

Injection moulded, straight teeth. Engagement angle 20°. Machined bore.

Polyacetal, white.

Polyketone, ivory-tone.

Note:

Polyacetal: Standard material with high hardness grade and low coefficient of friction.

Polyketone: Material with significantly longer service life, higher power transmission and greater security against tooth breakage due to the extraordinarily high wear resistance and very good tribological properties..

Can be used under water and other media.

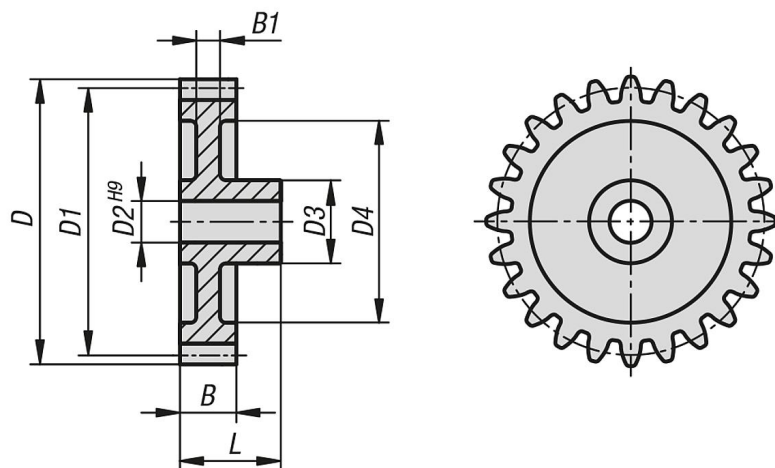
Injection moulded gear wheels may have internal manufacture-related cavities. These may become visible during drilling or broaching. They do not impair the function.

Temperature range:

-40 °C to +140 °C (taking amount and duration of load into account).

Note:

The torques specified in the tables relate exclusively to the toothing. The shaft diameter, key size, etc. are not taken into account. The permissible load calculations are based on the basic principles of the pitting load capacity of the tooth flanks as well as the occurring tooth root stress. The respective permissible load of a gear wheel depends on so many different factors that the values specified can only be reference values meant to make selection easier. The torque specifications relate to a single tooth. The overlap, which is essential for determining the transmissible torque, occurs depending on the pitch diameter, gear wheel pairing, etc. In the simplest straight tooth cases, an overlap ratio of 1.1 to 1.25 is normal. To increase the overlap, a higher number of teeth with smaller modules is used. A good profile overlap can minimise damage such as pitting.



Overview of items

Order No.	Main material	No. of teeth	D	D1	D2	D3	D4	B	B1	L	Max. torque Ncm
22402-1070012	polyacetal	12	9,8	8,4	3	6	-	6	6	15	5,5
22402-1070013	polyacetal	13	10,5	9,1	3	6	-	6	6	15	6
22402-1070014	polyacetal	14	11,2	9,8	3	6	-	6	6	15	6,4
22402-1070015	polyacetal	15	11,9	10,5	3	6	-	6	6	15	6,9
22402-1070016	polyacetal	16	12,6	11,2	4	9	-	6	6	15	7,3
22402-1070017	polyacetal	17	13,3	11,9	4	9	-	6	6	15	7,8
22402-1070018	polyacetal	18	14	12,6	4	9	-	6	6	15	8,3
22402-1070019	polyacetal	19	14,7	13,3	4	9	-	6	6	15	8,7
22402-1070020	polyacetal	20	15,4	14	4	9	-	6	6	15	9,2
22402-1070021	polyacetal	21	16,1	14,7	4	9	-	6	6	15	9,7
22402-1070022	polyacetal	22	16,8	15,4	4	9	-	6	6	15	10,1
22402-1070023	polyacetal	23	17,5	16,1	4	9	-	6	6	15	10,6
22402-1070024	polyacetal	24	18,2	16,8	4	9	13	6	3	15	11
22402-1070025	polyacetal	25	18,9	17,5	6	9	13	6	3	15	11,5
22402-1070026	polyacetal	26	19,6	18,2	6	9	13	6	3	15	12
22402-1070027	polyacetal	27	20,3	18,9	6	9	13	6	3	15	12,4
22402-1070028	polyacetal	28	21	19,6	6	9	13	6	3	15	12,9
22402-1070030	polyacetal	30	22,4	21	6	12	16	6	3	15	12,8
22402-1070032	polyacetal	32	23,8	22,4	6	12	16	6	3	15	14,7
22402-1070035	polyacetal	35	25,9	24,5	6	15	18,5	6	3	15	16,1
22402-1070036	polyacetal	36	26,6	25,2	6	15	18,5	6	3	15	16,6
22402-1070038	polyacetal	38	28	26,6	6	15	21	6	3	15	17,5
22402-1070040	polyacetal	40	29,4	28	6	15	21	6	3	15	18,4
22402-1070042	polyacetal	42	30,8	29,4	6	18	24	6	2	15	19,4
22402-1070045	polyacetal	45	32,9	31,5	6	18	24	6	2	15	20,7
22402-1070048	polyacetal	48	35	33,6	8	18	24	6	2	15	22,1
22402-1070050	polyacetal	50	36,4	35	8	18	27,5	6	2	15	23
22402-1070052	polyacetal	52	37,8	36,4	8	18	27,5	6	2	15	24
22402-1070054	polyacetal	54	39,2	37,8	8	18	27,5	6	2	15	24,9
22402-1070055	polyacetal	55	39,9	38,5	8	18	30	6	2	15	25,4
22402-1070056	polyacetal	56	40,6	39,2	8	18	30	6	2	15	25,8
22402-1070060	polyacetal	60	43,4	42	8	18	30	6	2	15	27,7
22402-1070064	polyacetal	64	46,2	44,8	8	18	37	6	2	15	29,5
22402-1070065	polyacetal	65	46,9	45,5	8	18	37	6	2	15	30
22402-1070070	polyacetal	70	50,4	49	8	18	37	6	2	15	32,3
22402-1070072	polyacetal	72	51,8	50,4	8	18	37	6	2	15	33,2
22402-1070075	polyacetal	75	53,9	52,5	10	18	37	6	2	15	34,6
22402-1070080	polyacetal	80	57,4	56	10	21	46,5	6	2	15	36,9
22402-1070090	polyacetal	90	64,4	63	10	21	57	6	2	15	41,5
22402-1070096	polyacetal	96	68,6	67,2	10	21	57	6	2	15	44,3
22402-1070100	polyacetal	100	71,4	70	10	21	57	6	2	15	46,1
22402-1070120	polyacetal	120	85,4	84	10	21	77	6	2	15	55,4

20402 Spur gears, plastic, module 0.7 injection moulded, straight teeth, engagement angle 20°



Overview of items

Order No.	Main material	No. of teeth	D	D1	D2	D3	D4	B	B1	L	Max. torque Ncm
22402-2070012	Polyketone	12	9,8	8,4	3	6	-	6	6	15	5,8
22402-2070013	Polyketone	13	10,5	9,1	3	6	-	6	6	15	6,3
22402-2070014	Polyketone	14	11,2	9,8	3	6	-	6	6	15	6,7
22402-2070015	Polyketone	15	11,9	10,5	3	6	-	6	6	15	7,2
22402-2070016	Polyketone	16	12,6	11,2	4	9	-	6	6	15	7,7
22402-2070017	Polyketone	17	13,3	11,9	4	9	-	6	6	15	8,2
22402-2070018	Polyketone	18	14	12,6	4	9	-	6	6	15	8,7
22402-2070019	Polyketone	19	14,7	13,3	4	9	-	6	6	15	9,2
22402-2070020	Polyketone	20	15,4	14	4	9	-	6	6	15	9,7
22402-2070021	Polyketone	21	16,1	14,7	4	9	-	6	6	15	10,1
22402-2070022	Polyketone	22	16,8	15,4	4	9	-	6	6	15	10,6
22402-2070023	Polyketone	23	17,5	16,1	4	9	-	6	6	15	11,1
22402-2070024	Polyketone	24	18,2	16,8	4	9	13	6	3	15	11,6
22402-2070025	Polyketone	25	18,9	17,5	6	9	13	6	3	15	12,1
22402-2070026	Polyketone	26	19,6	18,2	6	9	13	6	3	15	12,6
22402-2070027	Polyketone	27	20,3	18,9	6	9	13	6	3	15	13
22402-2070028	Polyketone	28	21	19,6	6	9	13	6	3	15	13,5
22402-2070030	Polyketone	30	22,4	21	6	12	16	6	3	15	14,5
22402-2070032	Polyketone	32	23,8	22,4	6	12	16	6	3	15	15,5
22402-2070035	Polyketone	35	25,9	24,5	6	15	18,5	6	3	15	16,9
22402-2070036	Polyketone	36	26,6	25,2	6	15	18,5	6	3	15	17,4
22402-2070038	Polyketone	38	28	26,6	6	15	21	6	3	15	18,4
22402-2070040	Polyketone	40	29,4	28	6	15	21	6	3	15	19,3
22402-2070042	Polyketone	42	30,8	29,4	6	18	24	6	2	15	20,3
22402-2070045	Polyketone	45	32,9	31,5	6	18	24	6	2	15	21,8
22402-2070048	Polyketone	48	35	33,6	8	18	24	6	2	15	23,2
22402-2070050	Polyketone	50	36,4	35	8	18	27,5	6	2	15	24,2
22402-2070052	Polyketone	52	37,8	36,4	8	18	27,5	6	2	15	25,2
22402-2070054	Polyketone	54	39,2	37,8	8	18	27,5	6	2	15	26,1
22402-2070055	Polyketone	55	39,9	38,5	8	18	30	6	2	15	26,6
22402-2070056	Polyketone	56	40,6	39,2	8	18	30	6	2	15	27,1
22402-2070060	Polyketone	60	43,4	42	8	18	30	6	2	15	29,1
22402-2070064	Polyketone	64	46,2	44,8	8	18	37	6	2	15	31
22402-2070065	Polyketone	65	46,9	45,5	8	18	37	6	2	15	31,5
22402-2070070	Polyketone	70	50,4	49	8	18	37	6	2	15	33,9
22402-2070072	Polyketone	72	51,8	50,4	8	18	37	6	2	15	34,9
22402-2070075	Polyketone	75	53,9	52,5	10	18	37	6	2	15	36,3
22402-2070080	Polyketone	80	57,4	56	10	21	46,5	6	2	15	38,8
22402-2070090	Polyketone	90	64,4	63	10	21	57	6	2	15	43,6
22402-2070096	Polyketone	96	68,6	67,2	10	21	57	6	2	15	46,5
22402-2070100	Polyketone	100	71,4	70	10	21	57	6	2	15	48,4
22402-2070120	Polyketone	120	85,4	84	10	21	77	6	2	15	58,1