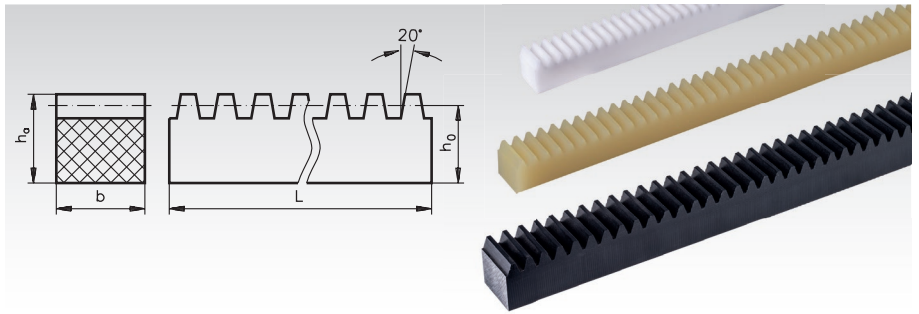


## Gear Racks Made from Plastic, Straight Tooth System

Because of the material used, plastic gear racks are not straightened.  
Material reference values page 864.



Ordering Details: e.g.: Product No. 281 601 00, Gear Rack Polyketone, Module 0.5, 4x4.5x250 mm

### Gear Racks Made from Polyacetal resin (white) / Polyketone Resin (ivory), Die-Cast Version

**Material Polyacetal:** Standard quality with high hardness.

**Material Polyketone (PK):** Lower friction leads to much larger life-span, even without lubrication. Much higher safety against tooth breaking, specially at longterm usage.

Temperature Range: -40°C to +140°C due to the load.

Pressure angle 20°.

	Product No. Polyacetal	Product No. Polyketone	b mm	h <sub>a</sub> mm	h <sub>0</sub> mm	Nom. Length L* mm	Weight Polyacetal g	Weight PK g
<b>Module 0.5</b>	281 601 00	281 601 01	4	4,5	4	250	5,2	4,6
	281 602 00	281 602 01	4	6	5,5	250	7,5	6,8
<b>Module 0.7</b>	282 601 00	282 601 01	6	6,7	6	250	12,0	10,6
<b>Module 1.0</b>	283 601 00	283 601 01	9	9	8	250	24,8	21,8
<b>Module 1.25</b>	284 601 00	284 601 01	10	11	9,75	250	35,0	30,8
<b>Module 1.5</b>	285 601 00	285 601 01	12	12	10,5	250	42,3	37,2
<b>Module 2.0</b>	286 601 00	286 601 01	15,4	11	9	250	44,8	39,3
<b>Module 2.5</b>	287 601 00	287 601 01	17	13	10,5	250	58,2	51,1
<b>Module 3.0</b>	288 601 00	288 601 01	19,4	15	12	250	75,8	66,6

### Gear Racks Made from POM, White, Milled Teeth, Slim Version

**Material:** POM, white (nature)

Pressure angle 20°.

The teeth on the gear racks are manufactured using an overhead milling cutter. This leads to negative tolerances.

Dimensions h<sub>a</sub> and h<sub>0</sub> up to module 2: -0.2 mm from module 2.5: -0.3 mm.

From module 2, except for nominal length 500 mm, cut for continuous linking.

\*\* b = 4mm +/-0,2mm.

	Product No.	b mm	h <sub>a</sub> mm	h <sub>0</sub> mm	Nominal Length L* mm	Weight g
<b>Module 0.5**</b>	291 601 00	4**	6	5,5	250	8
<b>Module 0.7</b>	292 601 00	5	7	6,3	250	11
<b>Module 1.0</b>	293 601 00	10	10	9,0	250	32
	293 603 00	10	10	9,0	500	63
<b>Module 1.25</b>	294 601 00	10	10	8,75	250	31
	294 603 00	10	10	8,75	500	61
<b>Module 1.5</b>	295 601 00	15	15	13,5	250	72
	295 603 00	15	15	13,5	500	140
	295 605 00	15	15	13,5	1000	285
<b>Module 2.0</b>	296 603 00	16	16	14,0	500	157
	296 605 00	16	16	14,0	1000	312
	296 607 00	16	16	14,0	1500	466
<b>Module 2.5</b>	297 603 00	20	20	17,5	500	243
	297 605 00	20	20	17,5	1000	489
	297 607 00	20	20	17,5	1500	735
<b>Module 3.0</b>	298 603 00	25	25	22,0	500	385
	298 605 00	25	25	22,0	1000	772
	298 607 00	25	25	22,0	1500	1146

### Gear Racks Made from POM, White or Black, Milled Teeth

**Material:** POM, on choice white (nature) or black.

Pressure angle 20°.

The teeth on the gear racks are manufactured using an overhead milling cutter. This leads to negative tolerances.

Dimensions h<sub>a</sub> and h<sub>0</sub> up to module 2: -0.2 mm from module 2.5 to 3: -0.3 mm.

Module 2, nominal length 1000 mm, and from module 3, the racks are cut for continuous linking.

	Product No. White	Product No. Black	b mm	h <sub>a</sub> mm	h <sub>0</sub> mm	Nominal Length L* mm	Weight g
<b>Module 1.0</b>	293 116 01	293 117 01	15	15	14,0	250	75
	293 116 03	293 117 03	15	15	14,0	500	149
	293 116 05	293 117 05	15	15	14,0	1000	300
<b>Module 1.5</b>	295 116 01	295 117 01	17	17	15,5	250	92
	295 116 03	295 117 03	17	17	15,5	500	186
	295 116 05	295 117 05	17	17	15,5	1000	400
<b>Module 2.0</b>	296 116 01	296 117 01	20	20	18,0	250	127
	296 116 03	296 117 03	20	20	18,0	500	254
	296 116 05	296 117 05	20	20	18,0	1000	500
<b>Module 2.5</b>	297 116 01	297 117 01	25	25	22,5	250	198
	297 116 03	297 117 03	25	25	22,5	500	397
	297 116 05	297 117 05	25	25	22,5	1000	800
<b>Module 3.0</b>	298 116 01	298 117 01	30	30	27,0	250	400
	298 116 03	298 117 03	30	30	27,0	500	800
	298 116 05	298 117 05	30	30	27,0	1000	1600

\* The real length is roughly one multiple of the pitch.