



## Polypropylene wheels are an inexpensive alternative to polyamide

The material polypropylene (PP) is a low-cost alternative to polyamide. It also features a lower specific weight and does not absorb moisture. Polypropylene is resistant to salt water, as well as many acids and alkalis up to a certain concentration.

### Properties

- ☞ excellent chemical resistance
- ☞ high load capacity
- ☞ resistant to fracturing even at heavy loads
- ☞ long working life
- ☞ run well on smooth floor surfaces
- ☞ low rolling resistance



### Shore hardness

approx. 60° Shore D

### Temperature range

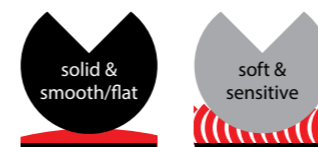
polypropylene can be used from 5° C to 80° C

the load-carry capacity is reduced at temperatures above +30° C

### Bearing types

- ☞ plain bearing (through hole)
- ☞ roller bearing
- ☞ ball bearing

### areas of use // floors





smooth-running series

**Features:**

- PPBL wheels:
- polypropylene wheel body with ball bearing
- with thread guards to protect the ball bearing from dust and dirt

**Properties:**

- excellent chemical resistance
- long service life
- runs well on smooth floor surfaces
- low rolling resistance
- (old designation: PPK)

**floors**



**floors**



**Features:**

- PPH wheels:
- polypropylene wheel body with 2 ball bearings

**Properties:**

- excellent chemical resistance
- high load capacity
- long service life
- runs well on smooth floor surfaces
- low rolling resistance
- (old designation: PPKS)



**"Affordable smooth-running ball bearing series: for flat floors"**

wheels	wheel ø mm	wheel width mm	axle hole ø mm	hub length mm	load-carrying capacity kg
PPBL-080-30-40-K08 Ident No.: 0021575	80	30	8	40	150
PPBL-100-30-40-K08 Ident No.: 0021576	100	30	8	40	180
PPBL-125-35-50-K08 Ident No.: 0028534	125	35	8	50	210
PPBL-160-40-60-K12 Ident No.: 0026623	160	40	12	60	300
PPBL-200-47-60-K12 Ident No.: 0026624	200	47	12	60	400

wheels	wheel ø mm	wheel width mm	axle hole ø mm	hub length mm	load-carrying capacity kg
PPH-080-35-40-K12 Ident No.: 0015426	80	35	12	40	150
PPH-100-35-40-K12 Ident No.: 0015427	100	35	12	40	200
PPH-125-40-50-K15 Ident No.: 0015428	125	40	15	50	300
PPH-150-45-60-K20 Ident No.: 0015429	150	45	20	60	450
PPH-150-45-60-K25 Ident No.: 0031118	150	45	25	60	450
PPH-160-45-60-K20 Ident No.: 0015430	160	45	20	60	450
PPH-200-50-60-K20 Ident No.: 0015431	200	50	20	60	550
PPH-200-50-60-K25 Ident No.: 0035357	200	50	25	60	550
PPH-200-50-60-K30 Ident No.: 0032156	200	50	30	60	550
PPH-250-60-75-K20 Ident No.: 0035494	250	60	20	75	700
PPH-250-60-75-K25 Ident No.: 0016963	250	60	25	75	700

Suitable castors can be found on pages 165, 278

Suitable castors can be found on pages 168, 169

Matching accessories can be found on page 432

Matching accessories can be found on page 432



## Polyamide wheels for medium to heavy-duty loads

The material polyamide (PA 6) is a high-quality plastic with a high load-carrying capacity. Polyamide is hygienic and odorless. It is also resistant to salt water, as well as many acids and alkalis up to a certain concentration. This material is often used in the food and pharmaceutical industries.

### Properties

- ☞ excellent chemical resistance
- ☞ high load capacity
- ☞ resistant to fracturing even at heavy loads
- ☞ long working life
- ☞ run well on smooth floor surfaces
- ☞ low rolling resistance



### Shore hardness

approx. 70° Shore D

### Temperature range

polyamide can be used from 40° C to 90° C

the load-carry capacity is reduced at temperatures above +30° C

### Bearing types

- ☞ plain bearing (through hole)
- ☞ roller bearing
- ☞ ball bearing

### areas of use // floors





**Features:**


- PALB and PALZ wheels, with plain bore:
- polyamide 6 wheel body with plain bore
- polyamide 6 can absorb and release moisture

**Properties:**

- excellent chemical resistance
- high load capacity
- resistant to fracturing even at heavy loads
- long service life
- runs well on smooth floor surfaces
- (old designation: POD/TG)

**floors**



 **“Our PALB series with strongly convex running surface and excellent turning characteristics”**

wheels	wheel ø mm	wheel width mm	axle hole ø mm	hub length mm	load-carrying capacity kg
PALZ-058-25-34-G10 Ident No.: 0021360	58	25	10	34	100
PALZ-065-30-40-G12 Ident No.: 0024698	65	30	12	40	120
PALB-080-33-40-G12 Ident No.: 0033518	80	33	12	40	150
PALB-100-35-40-G12 Ident No.: 0033519	100	35	12	40	200
PALB-125-36-50-G15 Ident No.: 0033520	125	36	15	50	300
PALB-150-40-58-G20 Ident No.: 0033521	150	40	20	58	450
PALZ-160-40-50-G15 Ident No.: 0022640	160	40	15	50	450
PALZ-175-48-60-G20 Ident No.: 0024713	175	48	20	60	500
PALB-200-48-58-G20 Ident No.: 0033522	200	48	20	58	550
PALZ-250-58-75-G25 Ident No.: 0024717	250	58	25	75	700

**floors**



**Features:**

- PALB and PALZ wheels, with roller bearings:
- polyamide 6 wheel body with roller bearings
- polyamide 6 can absorb and release moisture

**Properties:**

- excellent chemical resistance
- high load capacity
- resistant to fracturing even at heavy loads
- long service life
- runs well on smooth floor surfaces
- low rolling resistance
- (old designation: POD/TR)



wheels	wheel ø mm	wheel width mm	axle hole ø mm	hub length mm	load-carrying capacity kg
PALZ-058-29-31-R10 Ident No.: 0035502	58	29	10	31	75
PALZ-065-30-40-R12 Ident No.: 0025281	65	30	12	40	120
PALB-080-33-40-R12 Ident No.: 0033523	80	33	12	40	150
PALB-100-35-40-R12 Ident No.: 0033524	100	35	12	40	200
PALZ-108-36-44-R12 Ident No.: 0036485	108	36	12	44	200
PALB-125-36-50-R15 Ident No.: 0033525	125	36	15	50	300
PALB-150-40-58-R20 Ident No.: 0033526	150	40	20	58	450
PALZ-150-43-58-R20 Ident No.: 0025290	150	43	20	58	450
PALZ-150-50-60-R20 Ident No.: 0025292	150	50	20	60	450
PALZ-160-40-60-R20 Ident No.: 0035052	160	40	20	60	480
PALZ-175-48-60-R20 Ident No.: 0025294	175	48	20	60	500
PALB-200-48-58-R20 Ident No.: 0033527	200	48	20	58	550
PALZ-250-58-75-R25 Ident No.: 0025297	250	58	25	75	700

Suitable castors can be found on pages 171, 172, 281, 282

Suitable castors can be found on pages 174, 175

Matching accessories can be found on page 432

Matching accessories can be found on page 432



wide variety

**Features:**

- PAL and PAH plain bearing wheels:
- made of polyamide 6 with plain bearing
- polyamide 6 can absorb and release moisture

**Properties:**

- excellent chemical resistance
- high load capacity
- resistant to fracturing even at heavy loads
- long service life
- runs well on smooth floor surfaces
- low rolling resistance
- (old designation: PO)

**floors**



wheels	wheel ø mm	wheel width mm	axle hole ø mm	hub length mm	load-carrying capacity kg
PAL-040-33-35-G10 Ident No.: 0022584	40	33	10	35	80
PAL-045-19-22-G10 Ident No.: 0022687	45	19	10	22	70
PAL-050-17-20-G10 Ident No.: 0022587	50	17	10	20	150
PAL-050-19-22-G10 Ident No.: 0022586	50	19	10	22	50
PAL-050-25-28-G10 Ident No.: 0022588	50	25	10	28	150
PAL-060-20-22-G10 Ident No.: 0024802	60	20	10	22	110
PAL-060-20-25-G10 Ident No.: 0031965	60	20	10	25	150
PAL-075-24-28-G12 Ident No.: 0022590	75	24	12	28	150
PAH-080-33-35-G12 Ident No.: 0037728	80	33	12	35	500
PAH-080-33-35-G20 Ident No.: 0022591	80	33	20	35	500
PAL-100-35-44-G20 Ident No.: 0036654	100	35	20	44	150
PAH-100-40-48-G15 Ident No.: 0022595	100	40	15	48	500
PAH-100-50-60-G15 Ident No.: 0022600	100	50	15	60	600
PAL-125-38-40-G20 Ident No.: 0022623	125	38	20	40	300
PAL-125-40-48-G15 Ident No.: 0022620	125	40	15	48	250
PAL-125-40-44-G15 Ident No.: 0022628	125	40	15	44	300



wheels	wheel ø mm	wheel width mm	axle hole ø mm	hub length mm	load-carrying capacity kg
PAH-125-40-53-G15 Ident No.: 0022615	125	40	15	53	600
PAH-125-40-53-G20 Ident No.: 0030776	125	40	20	53	600
PAL-125-43-58-G20 Ident No.: 0022612	125	43	20	58	450
PAH-125-45-58-G20 Ident No.: 0015601	125	45	20	58	750
PAH-125-50-60-G20 Ident No.: 0022625	125	50	20	60	800
PAL-150-40-50-G15 Ident No.: 0022629	150	40	15	50	400
PAL-150-40-50-G20 Ident No.: 0028195	150	40	20	50	350
PAH-150-40-53-G20 Ident No.: 0022633	150	40	20	53	700
PAH-150-45-58-G20 Ident No.: 0015604	150	45	20	58	800
PAL-160-40-58-G20 Ident No.: 0022641	160	40	20	58	400
PAH-160-50-58-G20 Ident No.: 0022642	160	50	20	58	850
PAH-175-40-57-G20 Ident No.: 0022644	175	40	20	57	800
PAL-175-45-50-G15 Ident No.: 0022645	175	45	15	50	400
PAL-200-40-50-G15 Ident No.: 0022651	200	40	15	50	450
PAL-200-40-50-G20 Ident No.: 0033174	200	40	20	50	450
PAL-200-50-54-G35 Ident No.: 0031414	200	50	35	54	500
PAH-200-50-58-G20 Ident No.: 0015603	200	50	20	58	1,000
PAH-200-50-60-G20 Ident No.: 0033972	200	50	20	60	1,200
PAH-200-50-60-G25 Ident No.: 0022659	200	50	25	60	1,300
PAH-250-50-60-G25 Ident No.: 0022663	250	50	25	60	800
PAH-300-60-70-G30 Ident No.: 0022676	300	60	30	70	2,000

Matching accessories can be found on page 432



**Features:**

- PAL wheels and PAH roller bearings:
- made of polyamide 6 with roller bearing
- polyamide 6 can absorb and release moisture

**Properties:**

- excellent chemical resistance
- high load capacity
- resistant to fracturing even at heavy loads
- long service life
- runs well on smooth floor surfaces
- low rolling resistance
- (old designation: PO)

**floors**



**floors**



**Features:**

- PAM plain bearing wheels:
- polyamide 6 wheel body with plain bearing
- polyamide 6 can absorb and release moisture

**Properties:**

- excellent chemical resistance
- high load capacity
- resistant to fracturing even at heavy loads
- long service life
- runs well on smooth floor surfaces
- low rolling resistance
- (old designation: POKS)



wheels	wheel ø mm	wheel width mm	axle hole ø mm	hub length mm	load-carrying capacity kg
PAH-080-33-35-R15 Ident No.: 0022592	80	33	15	35	500
PAH-100-40-48-R15 Ident No.: 0022596	100	40	15	48	600
PAH-125-38-48-R15 Ident No.: 0022613	125	38	15	48	700
PAH-125-45-58-R20 Ident No.: 0015602	125	45	20	58	750
PAH-150-45-58-R20 Ident No.: 0015605	150	45	20	58	800
PAH-200-50-58-R20 Ident No.: 0022652	200	50	20	58	1,000
PAH-250-50-58-R20 Ident No.: 0022674	250	50	20	58	700
PAH-250-50-58-R25 Ident No.: 0038439	250	50	25	58	700

wheels	wheel ø mm	wheel width mm	axle hole ø mm	hub length mm	load-carrying capacity kg
PAM-080-35-40-G12 Ident No.: 0014368	80	35	12	40	200
PAM-100-35-40-G12 Ident No.: 0014369	100	35	12	40	300
PAM-125-40-50-G15 Ident No.: 0014370	125	40	15	50	400
PAM-150-45-60-G20 Ident No.: 0014371	150	45	20	60	700
PAM-160-45-60-G20 Ident No.: 0014372	160	45	20	60	700
PAM-200-50-60-G20 Ident No.: 0014373	200	50	20	60	1,000
PAM-200-50-60-G25 Ident No.: 0031416	200	50	25	60	1,000
PAM-250-60-75-G25 Ident No.: 0016978	250	60	25	75	1,300



**Features:**

- PAM and PAH wheels:
- polyamide 6 wheel body with ball bearing
- polyamide 6 can absorb and release moisture

**Properties:**

- excellent chemical resistance
- high load capacity
- resistant to fracturing even at heavy loads
- long service life
- runs well on smooth floor surfaces
- low rolling resistance
- (old designation: POKS and 820)

**floors**



**floors**



**Features:**

- PAH ball bearing wheels:
- made of polyamide 6 with ball bearing
- polyamide 6 can absorb and release moisture

**Properties:**

- excellent chemical resistance
- high load capacity
- resistant to fracturing even at heavy loads
- long working life
- runs well on smooth floor surfaces
- low rolling resistance
- (old designation: PO)



wheels	wheel ø mm	wheel width mm	axle hole ø mm	hub length mm	load-carrying capacity kg
PAM-080-35-40-K12 Ident No.: 0015402	80	35	12	40	200
PAM-100-35-40-K12 Ident No.: 0015403	100	35	12	40	300
PAH-100-40-48-K15 Ident No.: 0022598	100	40	15	48	500
PAM-125-40-50-K15 Ident No.: 0015404	125	40	15	50	400
PAH-125-50-60-K20 Ident No.: 0022626	125	50	20	60	800
PAM-150-45-60-K20 Ident No.: 0015405	150	45	20	60	700
PAH-150-50-60-K20 Ident No.: 0022637	150	50	20	60	900
PAM-160-45-60-K20 Ident No.: 0015406	160	45	20	60	700
PAM-200-50-60-K20 Ident No.: 0015407	200	50	20	60	1,000
PAM-200-50-60-K25 Ident No.: 0035765	200	50	25	60	1,000
PAM-250-60-75-K25 Ident No.: 0016979	250	60	25	75	1,300
PAH-250-50-60-K25 Ident No.: 0022672	250	50	25	60	1,500

wheels	wheel ø mm	wheel width mm	axle hole ø mm	hub length mm	load-carrying capacity kg
PAH-100-50-60-K20 Ident No.: 0022607	100	50	20	60	600
PAH-125-40-53-K20 Ident No.: 0022618	125	40	20	53	600
PAH-125-38-48-K20 Ident No.: 0022621	125	38	20	48	700
PAH-150-40-40-K20 Ident No.: 0034852	150	40	20	40	700
PAH-200-50-60-K25 Ident No.: 0022657	200	50	25	60	1,300
PAH-250-58-75-K25 Ident No.: 0014394	250	58	25	75	1,700
PAH-300-60-70-K25 Ident No.: 0022677	300	60	25	70	2,000

Suitable castors can be found on pages 197, 217, 219, 293, 294

Suitable castors can be found on pages 238, 245

Matching accessories can be found on page 432

Matching accessories can be found on page 432



## Cast polyamide for maximum loads

The material cast polyamide is resistant against breakages and corrosion. It has an extremely high load capacity, tensile strength and compressive strength. The high surface pressure must be observed when using this material on pressure-sensitive floors.

### Properties

- ☛ high load capacity
- ☛ low rolling resistance
- ☛ durable and abrasion-resistant
- ☛ excellent chemical resistance
- ☛ resistant to impacts and shock
- ☛ odorless, taste-free, hygienic
- ☛ long working life
- ☛ dimensionally stable



### Shore hardness

approx. 80° Shore D

### Temperature range

cast polyamide can be used from 40° C to 90° C

### Bearing types

- ☛ plain bearing (through hole)
- ☛ ball bearing
- ☛ precision bore and keyway groove

### areas of use // floors







high load capacity

**Features:**

- GPA wheels:
- made of tough, highly compressed cast polyamide with ball bearing

**Properties:**

- high load capacity
- low rolling resistance, durable and abrasion resistant
- excellent chemical resistance
- resistant to impacts and shock
- odorless, taste-free, hygienic
- long working life, resistant to deformation
- (old designation: GPOS)

**floors**



**“Trust in our strength – for heavy loads and high ratings”**

wheels	wheel ø mm	wheel width mm	axle hole ø mm	hub length mm	load-carrying capacity kg
GPA-050-60-60-K08 Ident No.: 0036542	50	60	8	60	200
GPA-080-40-45-K20 Ident No.: 0028330	80	40	20	45	1,000
GPA-100-40-45-K25 Ident No.: 0028331	100	40	25	45	1,250
GPA-100-55-60-K20 Ident No.: 0036889	100	55	20	60	2,000
GPA-125-55-60-K25 Ident No.: 0028332	125	55	25	60	2,000
GPA-150-55-60-K30 Ident No.: 0028333	150	55	30	60	2,500
GPA-150-65-65-K25 Ident No.: 0033778	150	65	25	65	2,500
GPA-150-80-90-K35 Ident No.: 0038558	150	80	35	90	3,000
GPA-150-90-90-K35 Ident No.: 0034677	150	90	35	90	3,000
GPA-200-55-55-K25 Ident No.: 0036675	200	55	25	55	3,000
GPA-200-55-60-K35 Ident No.: 0028334	200	55	35	60	3,000
GPA-200-55-60-K40 Ident No.: 0033480	200	55	40	60	3,000
GPA-200-80-90-K45 Ident No.: 0028335	200	80	45	90	4,500
GPA-250-65-75-K45 Ident No.: 0028336	250	65	45	75	5,000
GPA-250-80-90-K50 Ident No.: 0032865	250	80	50	90	6,000

Suitable castors can be found on page 247

Matching accessories can be found on page 432