

Plastic Wheels

available qualities



Instructions for use

We process a range of materials according to the area of application and stress. Our rollers and wheels made of thermosetting special moulding compounds are always used when polyamide is not sufficient because thermal demands (heat, cold) are made, acids or alkalis prohibit this, creep must be excluded or special demands are made.

Typical areas of application for our wheels are paint shops, the food industry (baking ovens, smoking ovens, etc.), hot factories, computer systems, conveyor systems, transport equipment, garage doors, etc. The load capacity depends entirely on the area of application and the nature of the floor. If the floor is not completely smooth, increased abrasion is inevitable. Driving against edges, sleepers or rails should be avoided.

available qualities (raw materials)

Type A: DE 800/879, black (high-temperature execution)

- Asbestos-free phenolic moulding compound for high heat with good running properties.
- Thermal resilience through special tempering up to approx. 260 °C, briefly up to approx. + 300 °C with good mechanical values.
- Notched impact strength ~ 2,5 kJ/m².

Type B: PF 7400, black (high-impact execution)

- Fabric-filled phenolic moulding compound with good running properties and high mechanical strength.
- Thermal resistance up to approx. 130 °C, briefly up to 160 °C.
- Notched impact strength ~ 8 kJ/m².

Type D: PF 31, black (standard execution)

- Particularly inexpensive, wood flour-filled phenolic moulding compound with good running properties (sensitive to impact).
- Thermal resistance up to approx. 140 °C, briefly up to 180 °C.
- Notched impact strength 1,5 - 2 kJ/m².

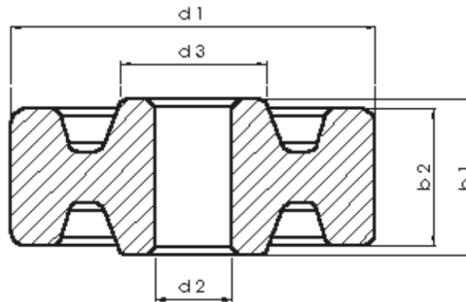
All information is based on information from the raw material manufacturers and is therefore non-binding guide values that may need to be verified by tests on a case-by-case basis.

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available dimensions



Wheel diameter Mm	Wheel tread width Mm	Hub width mm (+/- 0,5)	Hub diameter mm (ca.)	Bore diameter ² (plain bearing ³) mm (+ 0,1)	Load capacity ⁴ Kg	EH-Mould No.
d_1	b_2	b_1	d_3	d_2		
45 ¹	23,5	25	15	7,2	50	110
63 ¹	20	23,5	20	6,1 14,2	60	111
70	35	40	30	12,2 15,2	75	272
70	50	51	28	15,2 16,1	75	108
75	17	21	25	8,5	100	112
75	28	31	25	8,4	100	113
80 ¹	35	40	35	12,2 15,2	125	237
80	35	42	35	12,2 15,2	125	421
80	35	37	35	12,2 15,2	125	487
100	20	29	30	10,1	125	207
100	30	40	40	12,2 15,2 20,2	150	2025
100	38	42	40	12,2 15,2	200	605
125	46	58	48	20,2	275	102
150	50	58	48	15,2 20,2	300	504
175	50	58	48	20,2	325	502
200	50	60	65	20,2	350	503
250	50	58	70	20,2	350	501

¹ tread is crowned, for all other wheels the tread is cylindrical.

² Mould changes with regard to the bore (d2) are usually possible.

³ Different sintered bearing designs are available on request.

⁴ The load-bearing capacity depends to a large extent on the operating conditions (temperature, load distribution, soil conditions, Driving style etc.). The values mentioned in the table were determined on a test bench under optimal conditions and therefore contain a certain degree of certainty, but these can only be regarded as non-binding guide values. We recommend a test under actual operating conditions.

The stated values apply to the "HT" variant of the wheels made from the raw material "DE 800/879" (type A). The load capacity of wheels made from the raw materials "PF 7400" (type B) is higher, that of the wheels made from "PF 31" (type D) is lower.

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