

Electrically conductive wheels and castors

Solid rubber, thermoplastic rubber, polyurethane and polyamide are materials which are electrically conductive when they contain special additives. The wheels and castors then achieve an electrical resistance of less than 10 to the power 4 (10,000) ohms; they thus comply with the requirements of DIN EN 12527 and 12533. Such wheels and castors are used wherever an electrostatic discharge must be avoided (e.g. pharmaceuticals, clean room, automotive, and electrical industry applications).

Properties

leakage resistance: less than 10,000 ohms



Safety note instructions

In order to ensure the conductivity of painted components, the attachment points to the transporter must have no paint. The electrical conductivity of the wheels and wheel coverings can be affected by incapacitating deposits or by chemical and mechanical influences. This could cause the permissible values (as specified in the standards) to be exceeded. Dust, dirt, paint, acids, alkalis, overloads and impacts can reduce or prevent electrical/electrostatic energy from being discharged to the floor. It is the sole responsibility of the user to continually monitor all safety-related requirements, such as compliance with electrical conductivity standards during usage.

Hardness range

depends on the tread material

Temperature range

depends on the series of wheel

Bearing types

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

areas of use // floors





Features:

- TPBK-EC wheel series:
- polypropylene wheel body with ball bearing
- thermoplastic rubber tread
- with thread guards to protect the ball bearing from dust and dirt

Properties:

- runs quietly
- non-marking
- low rolling resistance
- electrically conductive
- the leakage resistance is < 10,000 ohms
- (old designation: KO-ELF)

floors



wheels



wheel ø
mm



wheel width
mm



axle hole ø
mm



hub length
mm



load-carrying
capacity kg

TPBK-050-19-22-K06-EC Ident No.: 0033382	50	19	6	22	40
TPBK-075-23-29-K06-EC Ident No.: 0033383	75	23	6	29	50
TPBK-100-25-29-K08-EC Ident No.: 0033384	100	25	8	29	65

floors



Features:



- TPBK-EC wheel series:
- polypropylene wheel body with ball bearing
- tread made of thermoplastic rubber, grey, approx. 85° shore A

Properties:

- runs quietly
- non-marking
- low rolling resistance
- electrically conductive
- the leakage resistance is < 10,000 ohms
- (old designation: TPK-ELF)



 **“Electrically conductive smooth-running series”**

wheels	 wheel ø mm	 wheel width mm	 axle hole ø mm	 hub length mm	 load-carrying capacity kg
TPBK-080-30-40-K08-EC Ident No.: 0034072	80	30	8	40	80
TPBK-100-30-40-K08-EC Ident No.: 0034073	100	30	8	40	90
TPBK-125-35-50-K08-EC Ident No.: 0034074	125	35	8	50	110

Matching accessories can be found on page 432



Features:



- SGS EC wheel series:
- wheel body made of steel sheet with roller bearing
- tread made of standard solid tire rubber, black
- floor contact staining can occur with these tires due to softener diffusion approx. 80° - 85° shore A

Properties:

- runs quietly
- affordable
- absorbs vibration
- electrically conductive
- the leakage resistance is < 10,000 ohms
- (old designation: 522 EL)

floors



wheels	 wheel ø mm	 wheel width mm	 axle hole ø mm	 hub length mm	 load-carrying capacity kg
SGS-080-30-40-R12-EC Ident No.: 0013142	80	30	12	40	50
SGS-100-30-40-R12-EC Ident No.: 0013151	100	30	12	40	70
SGS-125-38-50-R15-EC Ident No.: 0013163	125	38	15	50	100
SGS-140-38-49-R20-EC Ident No.: 0013382	140	38	20	49	120
SGS-160-40-58-R20-EC Ident No.: 0013194	160	40	20	58	135
SGS-180-50-60-R20-EC Ident No.: 0033481	180	50	20	60	170
SGS-200-50-60-R20-EC Ident No.: 0013238	200	50	20	60	205
SGS-250-60-75-R25-EC Ident No.: 0013264	250	60	25	75	295

Matching accessories can be found on page 432



Features:






- EGA-EC wheel series
- die-cast aluminum wheel body with ball bearing
- tread made of elastic solid rubber, approx. 65° shore A, strong solid rubber cushion

Properties:

- high elasticity with low rolling resistance
- runs quietly
- sturdy and shock-resistant
- absorbs vibration
- electrically conductive
- the leakage resistance is < 10,000 ohms
- (old designation: f3 elf)

floors



wheels	 wheel ø mm	 wheel width mm	 axle hole ø mm	 hub length mm	 load-carrying capacity kg
EGA-080-35-40-K12-EC Ident No.: 0031230	80	35	12	40	120
EGA-100-40-40-K12-EC Ident No.: 0031232	100	40	12	40	180
EGA-125-40-50-K20-EC Ident No.: 0031261	125	40	20	50	200
EGA-160-50-60-K20-EC Ident No.: 0031546	160	50	20	60	300
EGA-200-50-60-K20-EC Ident No.: 0032291	200	50	20	60	400

Matching accessories can be found on page 432



Features:

- PUZK-EC wheel series:
- polyamide 6 wheel body with ball bearing
- tread made of polyurethane, approx. 95° shore A, rounded edges

Properties:

- high load capacity
- low abrasion, non-marking, low rolling resistance
- excellent chemical resistance, oil and grease resistance
- resistant to cutting by metal chips
- the leakage resistance is < 10,000 ohms
- (old designation: PUSKS-ELF)



floors



“Electrically conductive, comfortable running movement”

wheels



**wheel ø
mm**



**wheel width
mm**



**axle hole ø
mm**



**hub length
mm**



**load-carrying
capacity kg**

PUZK-080-35-40-K12-EC Ident No.: 0033385	80	35	12	40	150
PUZK-100-35-40-K12-EC Ident No.: 0033391	100	35	12	40	200
PUZK-125-40-50-K15-EC Ident No.: 0033392	125	40	15	50	250
PUZK-160-45-60-K20-EC Ident No.: 0033393	160	45	20	60	380
PUZK-200-50-60-K20-EC Ident No.: 0033394	200	50	20	60	500



Features:






- PALK-EC wheel series:
- wheel body made of polyamide 6 with roller bearing and stainless steel axle tube; ready for installation
- 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
- electrically conductive
- the leakage resistance is < 10,000 ohms
- (old designation: TQR ELF)

floors



wheels	 wheel ø mm	 wheel width mm	 axle hole ø mm	 hub length mm	 load-carrying capacity kg
PALK-080-35-42-R12-EC Ident No.: 0036210	80	30	12	38	200
PALK-100-35-43-R08-EC Ident No.: 0036211	100	34	12	38	250
PALK-125-35-51-R08-EC Ident No.: 0036212	125	35	8	51	350
PALK-150-45-61-R12-EC Ident No.: 0036213	150	45	12	61	500
PALK-200-50-61-R12-EC Ident No.: 0036214	200	50	12	61	600

Matching accessories can be found on page 432



Features:

- PAM-EC wheel series:
- wheel made of polyamide 6 with 2 ball bearings
- polyamide 6 can absorb and release moisture

Properties:

- excellent chemical resistance
- high load capacity, resistant to fracturing even with heavy loads
- runs well on smooth floor surfaces
- low rolling resistance
- electrically conductive
- the leakage resistance is < 10,000 ohms
- (old designation: POKS-ELF)

floors



wheels



**wheel ø
mm**



**wheel width
mm**



**axle hole ø
mm**



**hub length
mm**



**load-carrying
capacity kg**

PAM-080-35-40-K12-EC Ident No.: 0033420	80	35	12	40	200
PAM-100-35-40-K12-EC Ident No.: 0033421	100	35	12	40	300
PAM-125-40-50-K15-EC Ident No.: 0033422	125	40	15	50	400
PAM-150-45-60-K20-EC Ident No.: 0033423	150	45	20	60	700
PAM-200-50-60-K20-EC Ident No.: 0033424	200	50	20	60	1,000

Matching accessories can be found on page 432