

B. Selection Criteria for Wheels and Castors

5. Blickle Wheel Series

Blickle Extra Heavy Duty Cast Nylon Wheels

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Blickle extra heavy duty cast nylon wheels

Cast nylon is a high-molecular thermo-plastic material produced by an activated anionic polymerisation of lactam. Cast nylon is a strong homogenous material which is stress-free and has a high degree of crystallisation.

In the depressurised casting process, the melted monomer is poured into forming tools and polymerised into a wheel centre by controlled chemical reactions.

Compared to injection-moulded nylon wheels, the monomer casting process considerably increases the load capacity of Blickle wheels manufactured in accordance with this process.

This material shows better properties than injection-moulded nylon 6 particularly with regard to:

- Load capacity
- Tension and pressure strength
- Modulus of elasticity
- Thermoform stability
- Flow properties
- Humidity absorption

Operating temperature: -30° C to +80° C. Temporarily, higher temperatures are also permissible. Note, the indicated load capacities decrease if the ambient temperature exceeds +35°C. All further technical and material characteristics correspond to the high-quality nylon 6 used by Blickle (refer to the material description on page 47).



GSPO series

Wheel Ø: 80 - 400 mm
Up to 12000 kg
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The GSPO series covers extra heavy duty nylon wheels made of hard and tough, highly compressed cast nylon. They have a very low rolling resistance and an excellent resistance to many aggressive substances. They are maintenance-free under normal operating conditions.

These wheels are available in natural beige.

When used as end wheels ensure the load rating of the axles is also adequate. The following bearing version is available as standard: Ball bearing. In addition to the standard version, the following are available:

- Plain bearing for static loads or very low speeds.
- Spherical roller bearing (Ref. No. extension: -PR) for applications requiring extremely high running capacities (>4,000 km). (Refer to the description on page 58).