

Engineering Plastic Supplies Ltd

Application Example: Pulley Wheels

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Application:

Pulleys for mobile cranes, truck cranes, lattice boom cranes, truck mounted cranes, elevators, stranding and wire drawing machines, spooling machines, mobile drilling rigs etc.

Material used:

Cast Nylon 6 (PA 6 G)

Oilamid® (PA 6 G + Oil)

Calamid 612® (PA 6/12 G)

Advantages for this application:

Pulleys made of cast nylon have proven themselves in the field over the long term and are convincingly better than steel in a variety of ways.

The most important advantages are:

- Low weight and the resulting ease of handling
- Quiet running
- High wear resistance
- High corrosion resistance to environmental conditions
- Maintenance free
- Economical manufacturing in almost any size

There are also further advantages to cast nylon pulleys. The wire rope is better preserved and the rope lifetime is significantly extended due to the lower pressure in the pulley groove. Vibration of the wire rope is absorbed by the dampening properties of the material so that bearing life is extended.