

DSM 3.0.4

Nylon + Self Lubricating (Cast)

General:

Polyamide (PA) is one of the most widely used engineering semi-crystalline thermoplastics, commonly known as **Nylon**.

Nylube has substantially improved the wear resistance abilities compared to that of any other currently available lubricated grade of cast nylon, whilst retaining excellent physical property characteristics. The material is particularly suited to dry running bearing applications throughout a wide load, speed and temperature range (up to 120°C). Nylube contains a combined liquid/solid lubricant system which allows for a coefficient of friction as low as 0.08. This is below that of almost any other polymer available at present.

Benefits:

- Greater fatigue and abrasion resistance
- They are tough, rigid and have chemical resistance to hydrocarbons.
- Improved dimensional stability.
- Easily machined.
- Easily welded.
- Good damping
- Electrically insulating

Limitations:

- Absorbs moisture (hygroscopic).
- Low flame-retardant standards (UL94: HB).
- Poor chemical resistance to strong acids

ASM (DEK) Applications:

- High temperature, dry running bearing applications.

Profiles:

- Plate: 8 – 100 mm thick
- Rod: 10 – 500 mm Diameter
- Tube

These values are representative. For critical applications, refer to data-sheet.

MECHANICAL PROPERTIES					
	HARDNESS Shore A	TENSILE STRENGTH:	YOUNGS MODULUS:	POISSONS RATIO:	DENSITY:
PA 6	---	85 MPa	3.3 GPa	0.36	1141 Kg/m³

Alternatives:

Alternative polymers are allowed only with the express written permission of ASMPT. Please email details of your request to engineering_enquiries@asmpt.com

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