



APPLICATION

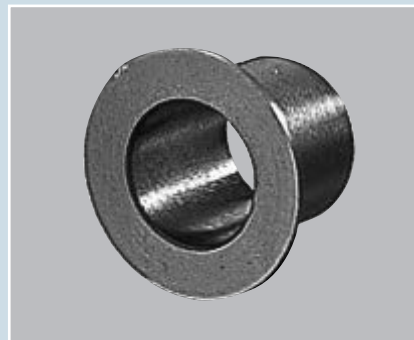
Fiber-reinforced nylon sliding material.

The addition of fiber reinforcing and special filler to nylon (polyamide or PA) provides a low coefficient of linear expansion as well as enhanced strength and tribological properties. Demonstrates suitable performance for a wide range of applications, including building materials, office automation equipment, textile machinery, and electronic devices.

MANUFACTURE

Features

1. Is more heat resistant than polyoxymethylene and suitable for applications in high heat.
2. Offers excellent friction and wear-resistance characteristics.
3. Suitable for injection molding of complex shapes.
4. Also available in grades suitable for use with soft axle materials.



Polymer MATERIALS AND SIZE

Material : DHA01

PA66 mixed with glass-fiber-reinforcing and special filler

Metallic

PLANNING

Material Characteristics (typical values)

Specific gravity	Tensile strength (MPa)	Elongation (%)	Hardness (HRM)	Coefficient of expansion ($\times 10^{-5}/^{\circ}\text{C}$)
1.37 – 1.47	160 or more (100 or more)	1 or more (2 or more)	77 – 93 (72 – 88)	2 – 6

NB: Figures in parenthesis are at 23°C and 50% water absorption.

CORPORATE PROFILE

Sliding Characteristics (typical values)

Material properties	Coefficient of friction (μ)	Maximum permissible load (MPa)	Maximum permissible speed (m/min)	Operating temperature range ($^{\circ}\text{C}$)
DHA01	0.1 – 0.3	6.9	30	-40 – 140

SPECIFICATION SHEET

Dimensional range

Injection-molded bearings can be made to a wide variety of complex shapes.