KALEN 1006

Material data sheet

Product features

Lining material for slide promotion. KALEN 1006 is an extruded high molecular low pressure polyethylene, manufactured from approx. 60 % recycled and 40 % fresh material, that is available in form of sheets.

Quality features

KALEN 1006 is highlighted by extremely good, material specific sliding properties. It serves primarily for slide promotion.

Product properties

Feature	Unit		Data
Chemical composition	Wt.-% Polyethylene		100
Hardness	Shore D		63
Density	g/cm³		0.94
Water absorption	Wt.-%		0
Yield stress	MPa	(20 ℃)	20
Impact strength	KJ/m²	(20 ℃)	70
Thermal coefficient of expansion	K^{-1}	(20 – 80 ℃)	200 x 10^{-6}
Thermal conductivity	W/mK	(20 - 80 ℃)	0.41
Max. application temperature	℃		80
Mean molar mass	g/mol.		3.5 mio.
Coefficient of sliding			0.1 – 0.17
Wear resistance (Sand slurry)	DIN EN ISO 15527		130 - 150

Due to the manufacturing process, it is not possible to exclude small variations in the properties of the product. These variations may include, but are not limited to, tolerances of dimension and surface finish.

Approximate figures are given for all technical data. They are based on assessment of tests on specific samples and cannot be considered as a guarantee for which Kalenborn would have to assume legal responsibility.
Subject to technical changes and errors.

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Product description

KALEN 1006 is characterized by good corrosion resistance, an excellent surface finish and low weight.

Installation

Mechanical fixing by means of different types of screwed connections, doweling methods and specific weld studs with special nuts.

Advantages

Very good slide promotion combined with extremely good corrosion resistance, excellent surface finish and low weight.

Application examples

Slide promotion linings for various plant components – e.g.

- bunkers
- chutes
- discharge hoods
- dump trucks
- front loader shovels
- hoppers
- rotary gate valves
- silos
- transfer sections
- troughs
- vessels
- vibrating troughs