

Material Data Sheet A112-WC

Polyamide A112-natural white (FDA)

General

A112-WC is a casted, creamy coloured Polyamide commonly referred to as Nylon, POM or PA. The material has very good physical and chemical properties and is used in a wide range of applications. Because of high moisture absorption which leads to swelling and the loss of physical properties we do not recommend the use in water.

Polyamide A112-natural white is approved for the use of applications in contact with foodstuff.

Physical properties Density: Moisture absorption: Moisture absorption: Tensile strength: Elongation at break: Modulus of elasticity: Ball Hardness H358/3: Coefficient of sliding: Melting temperature: Min. service temperature: Max. service temperature:	DIN 53479 23°C / 50% rel water 23°C DIN 53455 DIN 53455 DIN 53457 DIN 53456	g/cm ³ . M. % % N/mm ² % N/mm ² N/mm ² μ °C °C °C	1,15 2,2 6,6 80 - 85 25 3300 165 < 0,4 220 -30 100
Chemical resistance Water up to 70° Water up to 90° HFA, HFB, HFC fluids HFD Mineral oils	S U R U R	Ozone Esters, Ketones Alcohols Clorinated hydrocarbons Air up to 100°	U R R S R

Key to chemical resistance: R = resistant S = suitable U = unsuitable

Main application

Vegetable oils

Fuels

Guide rings, bushings, back-up rings, scrapers, housings.

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Analysis and Evaluation

The properties relate to fundamental values of Polyamide. Products values mentioned above are corresponding to ASTM or DIN standard and have been tested on standardized plates in the laboratory.

Air up to 150°

Air up to 200°



S U