

**PRODUCT INFORMATION**

# WARADUR® GSM

## Product Description

WARADUR® GSM is an ester wax consisting of an ester mixture of long chain aliphatic acids.

## General Advantages

High effectiveness at low concentrations (0.3 – 0.8 phr), release agent, flow improver.

## Examples of Use

Lubricant for rigid PVC processing, especially films and profiles. Flow improvement, mould release of TPU.

## Delivery Specifications \*

Characteristics	Unit	Target value	Method
Acid value *	mg KOH/g	10 – 15	ISO 2114
Saponification value *	mg KOH/g	155 – 180	ISO 3681
Drop point *	°C	75 – 80	ASTM 3954
Colour	–	pale yellow	AA 3.2.1.505
Viscosity @ 120 °C	mPas	approx. 10 – 20	AA 3.2.1.520
Density	g/cm <sup>3</sup>	approx. 1.00 – 1.02	Ph. Eur. 2.2.5

## Packaging and Handling

Physical form	Flakes or powder
Packaging	Paper bag or Big Bag
Storage	Store at ambient temperature on a dry place. Protect from heat/overheating and direct sunlight. The minimum remaining period is 1.5 years and is defined as the minimum shelf life at the customer. Thereafter, tests of the chemical characteristics are recommended. The maximum shelf life of 5 years is indicated.

## Safety

WARADUR® GSM

- is made from regrowing and fossil biological sources
- is not classified as carcinogenic, mutagenic or reprotoxic; no health or environmental hazards are known, provided it is applied in industrial and professional settings

## Delivery Time and Availability

Standard delivery time: 2 – 3 weeks. Preconditions can be met for achieving shorter delivery times on standard products when demanded by the market.

## Legislation

Food contact legislation:

- Product for technical applications; not food contact compliant.

Other legislation:

- REACH, RoHS and CONEG compliant
- Components listed in all relevant National Inventories

For further information, please contact [application@voelpker.com](mailto:application@voelpker.com).