PRODUCT INFORMATION

WARADUR® EBS

Product Description

WARADUR® EBS is a plant based, high melting, straight-chained amide wax. CAS #: 110-30-5.

General Advantages

Due to its low volatility, WARADUR® EBS is especially used in engineering plastics which are processed at higher temperatures. WARADUR® EBS does not affect the transparency of engineering plastics and is widely used as a typical slip- and anti-blocking agent.

Examples of Use

- Good release properties in PVC and thermoplastics
- Polyamide: flow improvement: WARADUR® EBS can be added as a lubricant in concentrations of 0.1 – 1.0 %; mould release and surface improvement: max. 0.6 %
- Calendering/blow moulding of PET/PBT: slip- and anti-blocking agent; usual concentrations 0.1 – 0.5 %
- Other applications: rubber, inks, hot melts, metal working, compacting aids in powder metallurgy

Delivery Specifications *

Characteristics	Unit	Target value	Method
Acid value *	mg KOH/g	max. 10	ISO 2114
Drop point *	°C	139 – 151	ASTM 3954
Colour	–	almost white	–
Density	g/cm³	0.99 – 1.01	Ph. Eur. 2.2.5

Packaging and Handling

Physical form	various
Packaging	Paper bag or Big Bag
Storage	Store at ambient temperature on a dry place. Protect from heat/overheating and direct sunlight. The maximum shelf life is 5 years after production. Thereafter, tests of the chemical characteristics are recommended. After delivery, a minimum remaining shelf life at the customer of 1.5 years is warranted.

Safety

WARADUR® EBS
- is not classified as carcinogenic, mutagenic or reprotoxic; no health or environmental hazards are known, provided it is applied in industrial and professional settings.
- is insoluble in water and physico-chemically eliminable. For more info, please consult SDS.

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:
- EU: all components listed in Annex I, Table 1 of Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food (no SML)
- This product is regulated under the following section(s) of the Code of Federal Regulations (CFR) as an incidental food additive:
  - 21 CFR 175.105 Adhesives
  - 21 CFR 175.300 Resinous and polymeric coatings
  - 21 CFR 175.320 Resinous and polymeric coatings for polyolefin films
  - 21 CFR 177.1210 Closures with sealing gaskets for food containers
  - 21 CFR 177.1520 Olefin polymers
  - 21 CFR 177.1640 Polystyrene and rubber-modified polystyrene
  - 21 CFR 177.2480 Polyoxymethylene homopolymer
  - 21 CFR 177.2600 Rubber articles intended for repeated use
  - 21 CFR 178.3860 Release agents

Other legislation:
- REACh, RoHS and CONEG compliant
- Listed in all relevant national inventories

For further information, please contact application@voelpker.com.

The information contained herein is believed to be accurate and reliable as of the date issued. However, we do not warrant or guarantee the accuracy or reliability, in particular not for any specific intended use by the customer. It is the responsibility of those to whom we supply our products directly or indirectly to ensure that their use of the products complies with existing regulations, laws, legislations and proprietary rights. The information given by Völpker Spezialprodukte does not exempt the customer from carrying out inspections and analyses on goods purchased.

Issued: 2021-12-07, supersedes all previous editions

Völpker Spezialprodukte GmbH · Fabrikstraße 1 · 39393 Völpke · Germany · Telephone +49 39402 962-0 · www.voelpker.com