

PRODUCT INFORMATION

WARADUR® OPplus

Product Description

WARADUR® OPplus is a montan wax based special wax consisting of esters of montanic acids with multihydroxyl alcohols. In addition, WARADUR® OPplus contains an increased amount of calcium montanate, and fatty acid salts and -esters.

General Advantages

WARADUR® OPplus is suitable for engineering plastics, thermosets, PVC, etc. WARADUR® OPplus is extremely versatile and suitable for a wide range of plastics applications as a multi-purpose additive.

The use of WARADUR® OPplus can lead to the following positive effects in the processes compounding, injection moulding and extrusion/blow moulding:

- Reduction of mould temperature in injection moulding
- Reduction of melt temperature (compounding, injection moulding, extrusion/blow moulding)
- Increasing injection speeds in injection moulding
- Realisation of higher filler contents under the same processing conditions
- Realisation of long flow paths
- Easy processing in tools that implement very different component thicknesses
- Improvement of the surface quality of injection moulded parts

Examples of Use

- Thermoplastics: PA, PBT, TPE, PC, PVC, styrenics
- Thermosets: epoxy resins, phenolic resins, polyurethane
- Dispersing agents for colour masterbatches and filled (talc, glass fibre) plastics
- We recommend the using from 0.3 to 0.6 %.

Delivery Specifications *

Characteristics	Unit	Target value	Method
Acid value *	°C	< 10	ISO 2114
Melting range *	°C	approx. 88 – 114	DSC
Solidification range	°C	approx. 92 – 65	DSC
Colour	–	pale yellow	AA 3.2.1.505

Packaging and Handling

Physical form	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® OPplus

- is made from a fossil and regrowing 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: information available upon request

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