

PRODUCT HANDLING INFORMATION SHEET

GEHR® PE - UHMW

1. Manufacturer

GEHR GmbH
Casterfeldstrasse 172
68219 Mannheim
Deutschland

Tel. +49 621 8789-0
Fax +49 621 8789-200
application.technology@gehr.de
www.gehr.de

2. Product Description

Product / Article	Engineering semi-finished product
Abbreviated terms	PE-UHMW
Material characterization	Thermoplastic
Main components	Polyethylene high density, ultra high molecular weight (can contain pigments, stabilizers and additives)
Components subject to labeling	None
Classification according to REACH	Article / No registration requirement.

3. Product characteristics

Form / State	Rods, profiles / solid
Colour	Natural, black, green, other colours available
Odour	Odourless
Density	0,91 – 0,96 g/cm ³
Melting range	- °C
Thermal decomposition	Ca. 330 °C
Ignition temperature	Ca. 350 °C
Solubility in Water	Insoluble
Special risks for mankind and the environment	No special dangers to humans and the environment.
Substances to avoid	None

4. Handling and Storage

Handling	The product can be worked with conventional machines and tools. Before machining the product should have room temperature and/or to be stored for min. 24h under normal climatic conditions. Chips must be removed during machining to prevent the risk of slipping. Local workplace-related dust limit values must be considered. Suitable extraction or ventilation on the processing machines must be ensured. Safety goggles must be worn during machining. General dust limit value: Respirable dust (6 mg/m³, EC); Inhalable dust (10 mg/m³).
Storage	The semi-finished products should be protected from external damage. Direct sunlight, UV rays, ionizing radiation, chemical contact, etc. should be avoided.
Safety measures	The general industrial safety recommendations should be considered. Thermal damage should be avoided during machining.

5. Fire – fighting measures

Suitable extinguishing agents	Water, foam, dry extinguishing media, carbon dioxide
Potential combustion products	Carbone dioxide (CO₂), carbon monoxide (CO) The formation of further fission and oxidation products depends on the fire conditions. Under special fire conditions, traces of other toxic substances are possible.
Necessary protection equipment	Wear self-contained breathing equipment.
Additional information	Dispose fire residues and contaminated extinguishing water in accordance with official regulations.

6. Removal

EC Waste Catalogue	Uncontaminated material (cuttings and waste) is not classified as hazardous according to the European Waste Catalogue (EAK).
EC Waste Code	070213 Waste plastics (MFSU) 120105 Plastics shavings and turnings 57129 Other solid waste plastics (Austria)
Waste removal	The material can be deposited as household waste or sent to a suitable incineration plant in compliance with local regulations. The material does not contain any cadmium-based pigments or stabilizers.

The product is not biodegradable, but based on current knowledge, it has no negative effects on the environment.

Recyclability

Check possibility of recycling.

7. Labeling and Transport

Classification and Labeling

Not subject to labelling

Transport

Not classified as dangerous goods under transport regulations.

Save the article against slipping.

Other Guidelines

None

8. Information about REACH

Information about REACH

According to EC directive 1907/2006/EC (REACH), Article 3, No.3, our products are clearly defined as articles, exempt from registration.

The EU regulation about chemicals No. 1907/2006 (REACH), which came into force 01st of June 2007, prescribes Material Safety Data Sheets (MSDS) only for dangerous substances and preparations. According to REACH we are manufacturing articles and, therefore, not required to issue safety sheets.

9. Other Information

Other information

The national and local regulations must be observed by the recipient of our products by his own authority.

The information is based on the current information of our knowledge and experience. The product handling information sheet is intended to give you advice about the safe handling of the product during storage, processing, transport and disposal and does not constitute a warranty of the product description / the products defined by the legal warranty regulations. The figures are not transferable to other products and have no quality assurance for specific product characteristics.

Die GEHR GmbH takes no responsibility for the behavior of traders and processors, which do not meet the above-mentioned information. This is especially true for improper and negligent handling, processing and use of the product.