

## Product Handling Information Sheet

# GEHR PE-UHMW<sup>®</sup>

### 1. Manufacturer

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### 2. Product Description

Article	Engineering semi-finished product
Abbreviation	PE-UHMW
Material characterization	Thermoplastics
Main components	Polyethylene high density, ultra-high molecular weight contains pigments, stabilizers and additives
Marking obligation components	None
Classification according to REACH	Product

### 3. Product Properties

Form / Condition	Rods, Profiles / Solid
Colour	nature, black, green, other colours possible
Odour	odourless
Density	0,91 – 0,96 g/cm <sup>3</sup>
Melting temperature	- °C
Thermal decomposition	ca. 330 °C
Ignition temperature	ca. 350 °C
Solubility in water	insoluble
Risks	no special risks for humans or animals

#### 4. Handling and Storage

Machining	The product can be machined with standard machinery and tools. Before machining the product should be stored at room temperature 24 h. Evacuate swarf to prevent slipping or tripping. Observe the maximum allowable concentration of dust levels on the working area which apply in your country. Wear safety goggles during machining. General dust limit value: Respirable dust (6 mg/m <sup>3</sup> ); Inhalable dust (10 mg/m <sup>3</sup> )
Storage	The products shall be stored indoor to keep away from any source of degradation such as sunlight, UV-jets, ionizing radiation, chemicals, ... Take arrangements versus electrostatic loads.
Safety measures	The general industrial safety measures should be considered. A thermal damage during machining should be avoided.

#### 5. Fire-fighting Measures

Suitable extinguishing agents	Water spraying jet, foam, dry chemical, carbon dioxide (CO <sub>2</sub> )
Potential combustion products	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), Formation of further decomposition and oxidation products depend upon the fire conditions. Under special fire conditions traces of other toxic substances are possible
Special protective equipment	Wear a self-contained breathing equipment.
Further information	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

#### 6. Disposal Considerations

European waste catalogue	According to the "European Waste Catalogue and Hazardous Waste List" uncontaminated waste from the products is not classified as hazardous. Following code numbers can be used: 070213 waste plastic from manufacture, formulation, supply and use of plastics, 120105 plastic shavings and turnings 57129 other cured waste plastics (Austria)
Waste disposal	If recycling is not possible, waste disposal by landfill or incineration in compliance with state and local regulations. The product do not contain pigments or stabilizers based on cadmium. The product is not biologically degradable, but based on the present state of knowledge no negative effects on the environment may be anticipated.

## 7. Marking and Guidelines

Marking in accordance EEC guidelines	Not subject to labelling.
Other guidelines	None
Transport regulations	Not classified as hazardous good under transport regulations.

## 8. Other Information

According EG directive 1907/2006/EG (REACH), our products are clearly defined as articles, exempt from registration. The European regulation (EV) about chemicals, which came into force June 1<sup>st</sup>, 2007, prescribes Material Safety Data Sheets (MSDS) only for dangerous substances and preparations. According REACH we are manufacturing articles and we are not required to issue MSDS.

All above mentioned information are based according to today's state of knowledge and supply no warranty of quality. Existing laws and regulations must be observed by the recipient of our products on his own authority.