

## GEHR PVDF<sup>®</sup>

### 1. Manufacturer

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GEHR GmbH  
Casterfeldstraße 172  
68219 Mannheim  
Deutschland  
Tel. +49 621 8789-0  
Fax +49 621 8789-200  
[Info@gehr.de](mailto:Info@gehr.de)  
[www.gehr.de](http://www.gehr.de)

### 2. Product description

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Article:	Engineering semi-finished product
Abbreviation	PVDF
Material characterisation	Thermoplastics
Main components	Polyvinylidene fluoride contains event. pigments, stabilizers and additives
Marking obligation components	none
Classification according REACH	Product

### 3. Product properties

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Form / condition	Rods, sheets / solid
Colour	natural, black, other colours on request
Odour	odourless
Density	1,78 g/cm <sup>3</sup>
Melting temperature	165 - 175 °C
Thermal decomposition	> 315 °C
Ignition temperature	- °C
Solubility in water	insoluble
Risks	no special risks for humans or animals (inhalation of thermal decomposition dust may lead to a polymer flue).
Possible decomposition products	strong alkalines.

#### 4. Handling and storage

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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 and formaldehyd 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, ...
Safety measures	the general industrial safety measures should be considered. A thermal damage during machining should be avoided.

#### 5. Fire-fighting measures

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Suitable extinguishing agents	Water, foam, dry chemical, carbon dioxide (CO <sub>2</sub> ).
Potential combustion products	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), hydrofluoric acid (HF). 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 apparatus. If exposed to combustion fumes bring the victim into fresh air.
Further information	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations..

#### 6. Disposal considerations

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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: <table> <tr> <td>070213</td> <td>waste plastic from manufacture, formulation, supply and use of plastics,</td> </tr> <tr> <td>120105</td> <td>plastic shavings and turnings</td> </tr> <tr> <td>160119</td> <td>plastic, from end-of-life vehicles from different means of transport and wastes from dismantling of end-of-life vehicles and vehicle maintenance</td> </tr> <tr> <td>170203</td> <td>plastic construction and demolition wastes</td> </tr> <tr> <td>200139</td> <td>plastics from municipal wastes</td> </tr> </table>	070213	waste plastic from manufacture, formulation, supply and use of plastics,	120105	plastic shavings and turnings	160119	plastic, from end-of-life vehicles from different means of transport and wastes from dismantling of end-of-life vehicles and vehicle maintenance	170203	plastic construction and demolition wastes	200139	plastics from municipal wastes
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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

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

### 8. Other information

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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 have to be observed by the recipient of our products on his own authority.