

Product Handling Information Sheet

PE 1000 conductive black

1. Company

Name/Address

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2. Product Description

Product/Item	Technical semi-finished product
Standard designation	PE-UHMW ESD (PE 1000, ultra-high molecular weight, electrically conductive)
Characterisation	Semi-crystalline thermoplastic based on ultra-high molecular weight polyethylene (molecular weight > 5 million g/mol) from virgin material, made electrically conductive with conductive carbon black; highest wear resistance, very low friction, UV-stabilised
Main components	• Polyethylene, ultra-high molecular weight (PE-UHMW) • Conductive carbon black • UV stabiliser
Components requiring labelling	none
Classification according to REACH	Article
Notes	–

3. Product Properties

Form/State	• solid
Colour	black (due to carbon black)
Odour	• odourless
Density	< 0.96 g/cm ³
Melting range	130 – 135 °C
Glass transition temperature	–
Thermal decomposition	>300 °C
Flash point	–
Ignition temperature	>400 °C
Notes	–

4. Hazard Information

Special hazards to humans and the environment	none
Notes	-

5. Handling and Storage

Handling	- The product can be machined with commercially available machines. - Before machining, the product should be at room temperature, i.e. stored for at least 24h under standard atmospheric conditions prior to machining. - Good cooling via chip removal remains important to avoid softening or smearing of the surface caused by heat build-up.
Storage recommendation	- horizontal - dry - protected from weather influences
Protective measures	-
Shelf life	-
Notes	-

6. Transport

Transport	Not classified as dangerous goods under transport regulations.
Packaging	-
Notes	-

7. Fire-Fighting Information

Suitable extinguishing media	- Water - Foam - Dry extinguishing agent - CO2
Possible combustion products	- Carbon monoxide - Carbon dioxide - Aliphatic hydrocarbons - Traces of aldehydes
Required protective equipment	Firefighters and others exposed to combustion products should wear full protective clothing and self-contained breathing apparatus.
Notes	Cool molten product with water. Collect firefighting water and combustion residues and dispose of them in accordance with local regulatory requirements.

8. Disposal Information

Recyclability	Check possibility of recycling.
EU Waste Catalogue	The product is not classified as hazardous according to the European Waste Catalogue (EWC).
Disposal	The material can be disposed of as household waste or sent to a suitable incineration plant, in compliance with local regulations.
Waste code no.	• 12 01 05 - plastics shavings and turnings • 07 02 13 - waste plastic
Notes	–

9. Labelling, Guidelines and Regulations

Labelling according to EEC guidelines	not subject to labelling requirements
Notes	–

10. Information on REACH

Information	According to EC Directive 1907/2006/EC (REACH), Article 3, No. 3, our products are articles that are not subject to registration. The European Chemicals Regulation (EC) No. 1907/2006 (REACH), which entered into force on 1 June 2007, requires safety data sheets (SDS) only for hazardous substances and preparations. Our products are articles under REACH, so no SDS requirement applies.
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11. Other Information

Other information	The above information is based on our current state of knowledge and does not constitute a guarantee of properties. Existing laws and regulations must be observed by the recipient of our product on their own responsibility.
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