

Product Handling Information Sheet

PTFE + 15 % carbon/graphite (K15)

1. Company

Name/Address

Liedtke Kunststofftechnik

Siemensstr. 32a, 42551 Velbert/Germany (DE) • Tel. +49 2051 605 105

info@liedtke-kunststofftechnik.de • www.liedtke-kunststofftechnik.de

2. Product details

Product/Article	Engineering semi-finished product (sheet / rod / bush)
Abbreviated terms	PTFE-K15 (PTFE + 15 % carbon/graphite)
Material Characterisation	Fluoropolymer (semi-crystalline), carbon/graphite filled
Main Components	• polytetrafluoroethylene (PTFE) • 15 % carbon/graphite
Components Subject to labelling	none
Classification according to REACH	Article
Notes	-

3. Product characteristics

Form/State	• solid
Color	black
Odour	• odourless
Density	2.15 g/cm ³
Melting range	~ 327 °C (crystalline melting point; not melt-flowable)
Limiting temperature (continuous)	260 °C
Minimum temperature	-200 °C
Thermal decomposition	> approx. 260 °C (release of fluorine-containing decomposition products)
Fire behaviour	non-flammable (UL 94 V-0)
Notes	-

4. Danger warnings

Special Risks For Mankind And The Environment	none (in solid state)
Notes	On overheating (> approx. 260 °C) and when smoking with contaminated hands, harmful fluorine fumes may form (polymer fume fever). Do not smoke.

5. Handling and Storage

Handling	• Product can be machined with conventional machines (turning, milling, drilling, sawing). • PTFE is not melt-flowable – joining only by machining/assembly, not by welding. • Avoid overheating during machining and ensure dust extraction (electrically conductive carbon/graphite dust); do not smoke. • Due to cold flow, adapt clamping and cutting parameters. • Carbon/graphite dust is electrically conductive – avoid deposits inside electrical equipment and switch cabinets.
Storage	• horizontally • dry • protected from contamination
Safety measures	In case of dust, extraction / respiratory protection; do not smoke
Shelf Life	–
Notes	–

6. Transport

Transport	• Not classified as hazardous good under transport regulations.
Finished Product Packing	–
Notes	–

7. Fire-fighting measures

Suitable extinguishing agents	• water • foam • dry extinguishing media • CO₂
Potential combustion products	• hydrogen fluoride (HF) • carbonyl fluoride • carbon monoxide • carbon dioxide
Necessary protection equipment	• Fire fighters and others exposed to combustion products should wear full protective clothing and self-contained breathing apparatus (HF formation).
Notes	Fire residues must be collected and disposed of in accordance with local regulations.

8. Removal

Recyclability	Filled fluoropolymer; material recycling only limited.
EC Waste Catalog	According to the European waste catalogue (EAK), the product is not classified as hazardous.
Waste Removal	Dispose of only in suitable incineration plants with flue-gas cleaning (HF scrubbing) in compliance with local regulations.
EC Waste Code	• 07 02 13 - waste plastic
Notes	-

9. Marking and Guidelines

Marking in accordance with EEC Guideline	not subject to labelling
Notes	-

10. 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 on chemicals No. 1907/2006 (REACH), which came into force on 1st June 2007, prescribes Material Safety Data Sheets only for dangerous substances and preparations. According to REACH, we are manufacturing articles and are therefore not required to issue safety data sheets.
-------------------------	--

11. Other Information

Other Information	All above-mentioned information is based on our current state of knowledge and does not constitute a warranty of properties/quality. Existing laws and regulations must be observed by the recipient of our products under their own responsibility.
-------------------	--