

Product Handling Information Sheet

Exolon® FR

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
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2. Product details

Product/Article	Engineering semi-finished product (solid polycarbonate sheet, flame-retardant)
Abbreviated terms	PC (Exolon® FR)
Material Characterisation	Amorphous thermoplastic, flame-retardant grade
Main Components	- polycarbonate - flame-retardant additives - may contain colour additives
Components Subject to labelling	none
Classification according to REACH	Article
Notes	–

3. Product characteristics

Form/State	solid
Color	transparent (clear 099) or grade-dependent (e.g. DX white 139)
Odour	odourless
Density	1.20 g/cm ³
Melting range	– (amorphous, no melting point)
Glass transition temperature	≈ 147 °C
Limiting temperature (continuous)	≈ 120 °C (no load)
Thermal decomposition	>300 °C
Ignition temperature	>450 °C
Fire behaviour	UL 94 V-0 (≥ 2 mm); EN 45545-2; FAR 25.853
Notes	–

4. Danger warnings

Special Risks For Mankind And The Environment	none
Notes	-

5. Handling and Storage

Handling	- Product can be worked with conventional machines and tools (milling, turning, drilling, sawing). - Before machining the product should have room temperature and/or be stored for min. 24h under normal climatic conditions. - Before thermoforming, PC must be pre-dried (hygroscopic). - Avoid contact with solvents and aggressive cleaners (risk of stress cracking).
Storage	- horizontally - dry - protected against climatic influences - remove protective film only shortly before processing
Safety measures	-
Shelf Life	-
Notes	-

6. Transport

Transport	- Not classified as hazardous good under transport regulations. - Secure against slipping and scratching.
Finished Product Packing	-
Notes	-

7. Fire-fighting measures

Suitable extinguishing agents	- water - foam - dry extinguishing media - CO₂
Potential combustion products	- carbon monoxide - carbon dioxide - small amounts of further decomposition products of the additives
Necessary protection equipment	Fire fighters and others exposed to combustion products should wear full protective clothing and self-contained breathing apparatus.
Notes	Molten product should be cooled with water. Fire residues must be collected and disposed of in accordance with local regulations.

8. Removal

Recyclability	Check possibility of recycling (PC is generally recyclable; flame-retardant grades may be limited).
EC Waste Catalog	According to the European waste catalogue (EAK), the product is not classified as hazardous.
Waste Removal	Waste disposal by landfill or incineration in compliance with state and local regulations.
EC Waste Code	• 12 01 05 - plastics shavings and turnings • 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.
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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.
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