

Product Handling Information Sheet

Onyx FR

Product Details

Product / Article	3D printing material (FDM filament)
Abbreviated Term	Onyx FR
Material Characterisation	Thermoplastic, micro carbon fibre filled, flame retardant
Main Components	Polyamide, carbon (fibres), flame retardant additive
Components Subject to Labelling	no data on individual components; no classification known under Regulation (EC) No. 1272/2008

Product Characteristics

Form / State	solid (filament / printed part)
Colour	black
Odour	no data available
Density	1.2 g / cm ³
Melting range	no data available
Decomposition temperature	no data available
Flash point	no data available
Flammability	UL 94 V-0 (wall thickness ≥ 3 mm)

Hazard Warnings

Special risks for mankind and the environment	none known
Note	Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust or fibres. Avoid generating dust.

Handling and Storage

Handling	The filament is processed additively using the FDM process. When post-processing printed parts (e.g. sanding), extract dust generated and avoid inhalation.
Storage	Store in a dry, cool and well-ventilated place; protect from direct sunlight and extremely high or low temperatures. As a hygroscopic polyamide-based material, store protected from moisture to maintain print quality.
Safety measures	Provide respiratory protection and extraction for dust-generating post-processing steps.
Shelf life	no data available

Transport

Transport	Not classified as a dangerous good under transport regulations.
Finished product packing	–

Fire-Fighting Measures

Suitable extinguishing agents	Water spray, foam, CO ₂ , alcohol-resistant foam or dry chemical
Potential combustion products	Carbon oxides (CO, CO ₂), nitrogen oxides, hydrocarbons, ammonia, amines, hydrogen cyanide – typical thermal decomposition products of polyamide-based materials. No product-specific manufacturer data on further decomposition products of the flame-retardant grade is published.
Necessary protective equipment	Firefighters and others exposed to combustion products should wear full protective clothing and self-contained breathing apparatus.
Note	Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

Removal

Recyclability	Check the possibility of recycling; recycle where possible.
Classification under the European Waste Catalogue (EWC)	The product is not classified as hazardous.
Waste disposal	Dispose of contents/container in accordance with applicable local, regional and national regulations.
Waste code (EWC)	• 12 01 05 – plastics shavings and turnings • 07 02 13 – waste plastic

Marking

Marking in accordance with EC directive	no classification known under Regulation (EC) No. 1272/2008
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Information about REACH

Classification	According to EC directive 1907/2006/EC (REACH), Article 3, No. 3, our products are clearly defined as "articles" and are exempt from registration.
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Other Information

Note	All information above is based on our current state of knowledge and does not constitute a guarantee of specific properties. Applicable laws and regulations must be observed by the recipient of our products on their own responsibility.
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