

Product Handling Information Sheet

Hm 2471 (UP GM 203)

1. Company

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2. Product Description

Product	Technical semi-finished product (sheet / rod)
Standard designation	Hm 2471 acc. DIN 7735 / UP GM 203 acc. EN 60893 (glass-mat hard laminate, polyester resin)
Characterisation	Thermoset laminate made of glass-fibre mats, impregnated with unsaturated polyester resin and pressed under heat/pressure
Main components	• Unsaturated polyester resin (UP resin) • Glass-fibre mat (reinforcement)
Components requiring labelling	none
Classification under REACH	Article
Notes	Not declared as a food contact material.

3. Product Properties

Form/State	• solid (thermoset)
Colour	white (natural)
Odour	• odourless to slightly characteristic
Density	1.8 g/cm ³
Limiting temperature (continuous use)	130 °C
Ignition temperature	approx. 400–450 °C (typical for UP resin laminates)
Thermal decomposition	> approx. 300 °C
Flammability	self-extinguishing (UL 94 V-0)
Notes	Absorbs only minor amounts of moisture; this may cause minor changes in electrical properties.

4. Hazard Information

Particular hazards to humans and the environment	none (in the cured state)
Notes	Dust generated during machining (glass-fibre/resin dust) should not be inhaled – glass fibres may cause mechanical irritation. Overheating or burning can produce harmful decomposition products (including carbon monoxide, carbon dioxide, and possibly traces of styrene). No nitrogen in the base molecule, therefore no formation of nitrogen oxides.

5. Handling and Storage

Handling	• The product can be machined with standard commercial machinery (sawing, milling, turning, drilling, punching). • Ensure dust extraction during machining (glass-fibre dust). • Use sharp, carbide-tipped tools; note increased tool wear due to the glass-fibre content. • As a thermoset, cannot be formed or welded.
Storage recommendation	• horizontal • dry • protected from direct UV/sunlight exposure • protected from contamination
Protective measures	In case of dust generation, use extraction / respiratory protection; skin contact with glass-fibre dust may cause mechanical irritation – protective gloves recommended.
Shelf life	–
Notes	–

6. Transport

Transport	• Not a dangerous good within the meaning of transport regulations.
Packaging	–
Notes	–

7. Firefighting Measures

Suitable extinguishing media	• Water • Foam • Dry extinguishing agent • CO₂
Possible combustion products	• Carbon monoxide • Carbon dioxide • Smoke • Possibly traces of styrene
Required protective equipment	• Firefighters and others exposed to combustion products should wear full protective clothing and self-contained breathing apparatus.
Notes	Collect fire residues and dispose of in accordance with local regulations.

8. Disposal Considerations

Recyclability	Thermoset (glass-fibre reinforced); material recycling not possible, thermal recovery possible.
European Waste Catalogue	The product is not classified as hazardous under the European Waste Catalogue (EWC).
Disposal	Dispose of in suitable incineration plants in accordance with local regulations.
Waste code no.	• 07 02 13 - plastic waste
Notes	–

9. Labelling, Directives and Regulations

Labelling under EEC directives	not subject to labelling requirements
Notes	–

10. REACH Information

Information	Under EC Directive 1907/2006/EC (REACH), Article 3, No. 3, our products are articles that are not subject to registration. Our products are articles under REACH, therefore 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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