

Grade 8 Technology Worksheet

Working with polyester

Polyester resins add strength and lifespan

Gel coating offers a high-quality finish on a fibre-reinforced composite. These are modified resins which are applied to moulds. They are resistant to UV rays and are also used in marine craft.

Polyester resin is a thick, syrupy liquid, denser than water, which hardens to a tough, lightweight, corrosion-proof plastic. It is a thermoset.

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| 1.1 | What are the advantages of polyester resins? | [4 marks] |
| 1.2 | What is a thermoset? | [3 marks] |
| 1.3 | What is a gel coating used for? | [3 marks] |
| 1.4 | Visit a kitchen or bathroom showroom and a hardware store. List 10 products that have been made from polyester resin. | [10 marks] |
| | | [20 marks] |

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Suggested Solutions

Question number	Possible marks	Answers
1	4 marks 3 marks 3 marks 10 marks	1.1 Tough, light, strong, corrosion-proof 1.2 Plastic which sets its shape and hardens – cannot change and soften when heated 1.3 High-quality finish on fibre reinforces composites 1.4 Own examples

[20 marks]