



THERMOPLASTIC ELASTOMERS (TPE)

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'MORE COMMON POLYMERS' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

http://www.technologystudent.com/mobapps/more_polymers1.pdf

Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research / complete answers to all the questions.

**ARE YOU READY?
USE THE MOBILE App!!**

1 WHAT ARE THERMOPLASTIC ELASTOMERS (TPEs)?

2 NAME FIVE TPEs

A: _____

B: _____

C: _____

D: _____

E: _____

3 FOR EACH OF THE TPEs YOU NAMED IN Q2, PASTE AN IMAGE OF A MANUFACTURED PRODUCT.

A B C

D E

4 DESCRIBE GENERAL PROPERTIES OF TPEs

5 LIST EXAMPLES OF THE PRACTICAL APPLICATION OF TPEs

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THERMOPLASTIC ELASTOMERS (TPE) AND NYLON

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1

STYROFLEX (A TPE), IS USED TO MANUFACTURE THE REMOTE CONTROL SEEN BELOW.

ANSWER THE QUESTION IN THE OPPOSITE BOX.



WHY IS STYROFLEX SUITABLE FOR THE MANUFACTURE OF THIS PRODUCT?

2

DESCRIBE THE EARLY HISTORY OF NYLON 66. Include the name of the person linked with its early development.



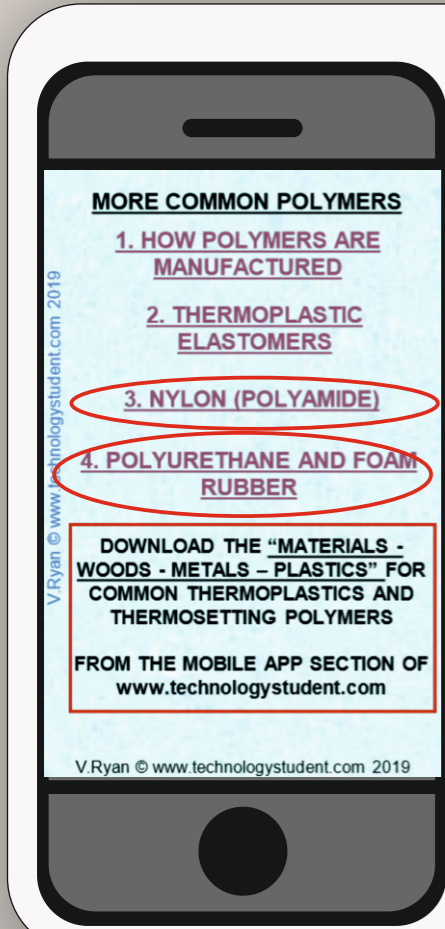
3

DESCRIBE GENERAL PROPERTIES OF NYLON.

4

LIST SIX EXAMPLES OF PRODUCTS MANUFACTURED FROM NYLON.

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NYLON, POLYURETHANE AND FOAM RUBBER

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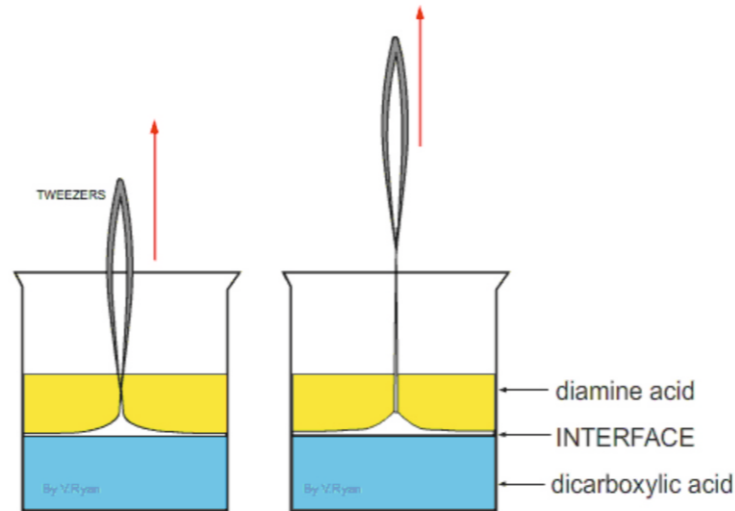
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**ARE YOU READY?
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1

USING THE DIAGRAM BELOW FOR REFERENCE, DESCRIBE HOW NYLON CAN BE MANUFACTURED IN THE CLASSROOM.

ANSWER THE QUESTION IN THE OPPOSITE BOX.



HOW IS NYLON MANUFACTURED IN THE CLASSROOM?

2

DESCRIBE THE EARLY HISTORY OF POLYURETHANE AND FOAM RUBBER. Include the name of the person linked with its early development.



3

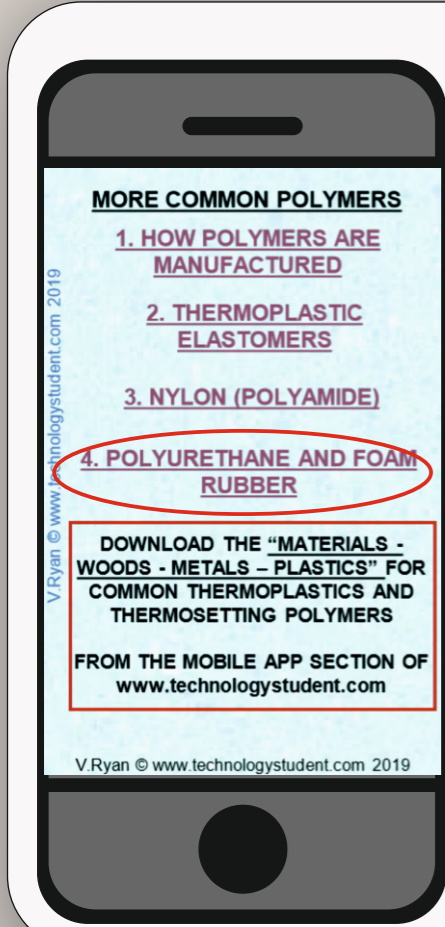
DESCRIBE GENERAL PROPERTIES OF POLYURETHANE.

4

LIST THREE EXAMPLE OF PRODUCTS MANUFACTURED FROM POLYURETHANE.

LIST THREE EXAMPLE OF PRODUCTS MANUFACTURED FROM FOAM RUBBER.

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MANUFACTURE OF POLYURETHANE AND FOAM RUBBER

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**ARE YOU READY?
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1

EXPLAIN HOW POLYURETHANE IS MANUFACTURED IN A CLASSROOM / LABORATORY. Include a diagram and notes.

2

EXPLAIN HOW FOAM RUBBER IS MANUFACTURED IN A CLASSROOM / LABORATORY. Include a diagram and notes.

3

DESCRIBE GENERAL PROPERTIES OF FOAM RUBBER.

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