

GCSE Chemistry B (Twenty First Century Science)
J258/01 Breadth in Chemistry (Foundation Tier)

Question Set 9

Multiple Choice Questions

1

Table 1.1 shows the properties of three polymers.

Polymer	Relative breaking strength	Flexibility	Temperature at which it softens (°C)	Cost
A	very high	fairly flexible	250	very high
B	low	very flexible	70	low
C	fairly low	stiff	150	low

Table 1.1

- (a) A company wants to make cups to hold boiling water.

Which polymer, **A**, **B** or **C**, should the company choose?

Give **two** reasons for your choice using the information in **Table 1.1**.

[2]

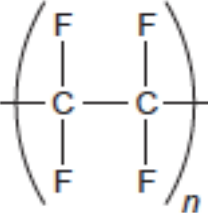
- (b) Which of polymers, **A**, **B** and **C**, has the **weakest** intermolecular forces?

Give a reason for your answer.

[2]

- (c) Polymer **A** is an addition polymer.

Draw the structure of the monomer that forms polymer **A**.

Repeating unit of polymer A	Structure of monomer
	

[1]

Total Marks for Question Set 9: 5

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