Checking Swelling at Equal Water Uptake

Scoring guide · one credit per question · review written work against each rubric

Checking Swelling at Equal Water Uptake

Question 1

Choice (3)

Both gain 0.8 g. P thickens by 0.25 mm and Q by 0.05 mm.

Question 2

Q qualifies because its thickness increases by 0.05 mm. P increases by 0.25 mm, above the limit.

Question 3

Expose both pieces under the same conditions. Measure the mass gain and thickness change of each. A larger thickness change for free Q at comparable mass gain supports the support explanation.

Question 4

That result would weaken the idea that the tested support restricts Q. Removing it did not change thickness growth at the same water gain.