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PVA POLYMER SLIME LEARN CHEMISTRY RSC ORG PDF - Search results, 76 PVA polymer slime. A solution of polyvinyl alcohol (PVA) can be made into a slime by adding borax solution, which creates crosslinks between polymer chains. In this activity, some interesting. properties of the slime are investigated. Students are guaranteed to enjoy the activities. involved., A solution of polyvinyl alcohol (PVA) can be made into a slime by adding borax solution, which creates cross-links between polymer chains. In this activity, some interesting properties of the slime are investigated. Students are guaranteed to enjoy the activities involved., Exercises. (It acted as a cross-linking agent. It caused the long chains of PVA molecules to clump together in a fish-net design, forming the slime.) (answers will vary.) (Molecules are groups of atoms, while polymers. are long chains of molecules all stuck together.) Viscosity is the resistance of a liquid to flow, or its "thickness." ..., A solution of polyvinyl alcohol (PVA) can be made into a slime by adding borax solution, which creates cross-links between polymer chains. In this activity, some interesting properties of the slime are investigated., By having different groups use different amounts of sodium borate solution, students should be. able to more easily determine the effects of cross-linking on the properties of the polymer. The. more sodium borate used, the more cross-linking that occurs. Each batch of slime is 96% water., The original set of materials and procedure called for 50 mL of the polyvinyl alcohol, but we found that that amount was more than needed in comparison to the amount of borate the procedure called for. We changed the ratio to 10.75 mL of polyvinyl alcohol and 4.00 mL of borate, which created a better consistency., The slime created in this STEM Gem activity is made from a common polymer that can be found in many types of non-toxic glue, called polyvinyl alcohol, or PVA. PVA is a loose-linked liquid polymer., The polyvinyl alcohol and sodium borate are mixed together in approximately a 10 to 1 ratio. 20 ml of the 4% poly (vinyl alcohol) is added to a disposable cup. Food coloring can be added to the PVA in the cups to make

different colors. ... Add 3 ml of the 4% cross-linker (sodium borate) to the PVA. ..., Procedure. Collect 90 mL of the poly (vinyl alcohol) in a 200-mL beaker and 25 mL of borax. ... For the first trial, add 30 mL of the PVA solution into a Styrofoam cup â€“. ... Add 2-3 drops of food coloring into the PVA so you can identify it later (or just. ... Add 2 mL of the borax solution to the poly (vinyl alcohol) and begin stirring with. ...