Students’ worksheet

**Properties of polymers – try to identify reasons for different properties**

***Task 1:*** Explore the behavior of two clothes in water.

*Chemical and aids:* Water, pieces of cotton clothes and PS (polyamide, PET, Tesil, Teflon, …) based clothes or plastics, 2 beakers of suitable size

*Procedure:*

1. Put the piece of cotton clothes into a beaker filled with water.
2. Put the piece of PS plastics (or the selected material) into a beaker filled with water.

*Observation:*

*Results and discussion:*

*Questions:*

1. Try to identify, why the behavior of polymers in water is different? Identify a key parameters responsible for different behavior.
2. How can we influence described behavior in water if we synthetize a new polymer a we need to get water-proof surface?
3. How can we utilize the different properties of polymers studied?

*Conclusion:*