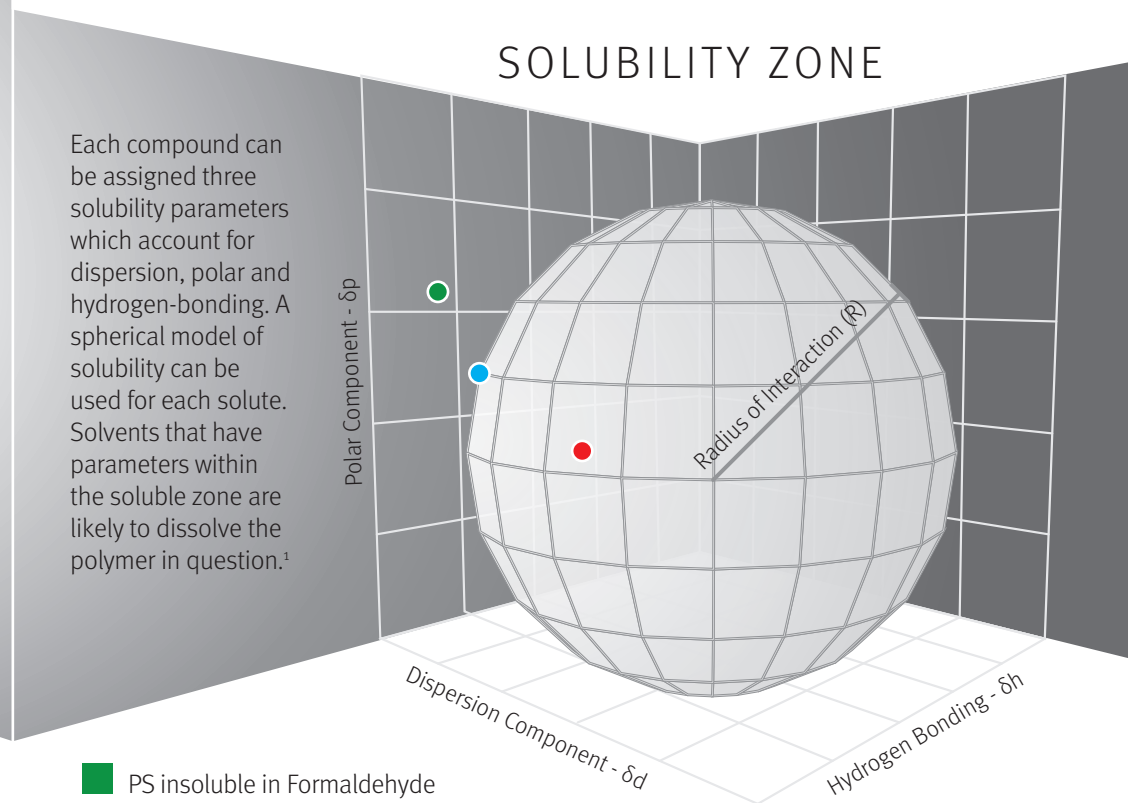
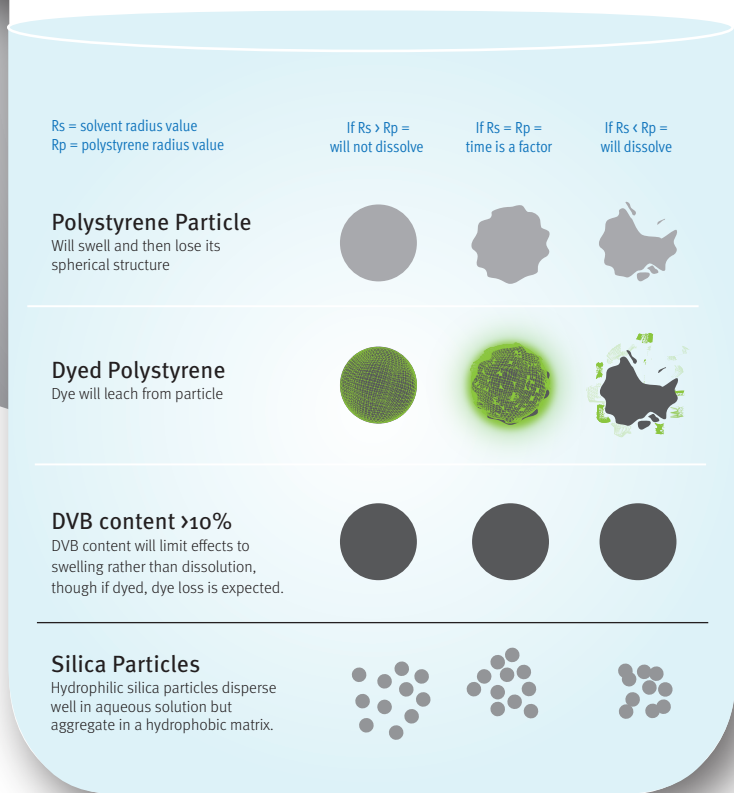


# To Bead or Not to Bead?

## A QUESTION OF SOLUBILITY.

How to know if your particles are compatible with your solvents?



- PS insoluble in Formaldehyde
- PS dissolves in Methylene Chloride
- PS stable in Ethanol depending on exposure time and temperature

DISCLAIMER: There is no substitute for bench testing. Temperature influences the reaction kinetics. Time is an important factor to determine solubility. Particles can remain stable for a protocol but you don't want to leave them immersed for prolonged periods of time. Mixtures can change expected solubility parameters, while a polymer may be stable in solvent A or solvent B, particle dissolution may occur if the solvents are combined.

Want to learn more? See TSD 0023 Solvents & Non-Solvents of Polystyrene.

<sup>1</sup> Hansen, C. M. (2012). *Hansen Solubility Parameters: a Users Handbook, Second Edition*. Hoboken: Taylor and Francis.