

# Technical properties / differences of DEHT-plasticized PVC infusion lines at a glance.

| Tubing properties                                               | New DEHT tubing                                                     | DEHP tubing                                   |
|-----------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------|
| 1. Plasticizer content                                          | 35 %                                                                | 32.7 %                                        |
| 2. Tubing hardness                                              | shore 77 A;<br>difference hardly noticeable                         | 79 A                                          |
| 3. Plasticizer migration<br>in contact with 10 % lipid solution | 241 µg/24 h / 450 µg/24 h<br>= - 54 %                               |                                               |
| 4. Inner diameter of standard tubing                            | 3 mm,<br>more homogenous, fewer variations, better constancy        |                                               |
| 5. Outer diameter of standard tubing                            | 4.1 mm,<br>more homogenous, fewer variations, better constancy      |                                               |
| 6. Wall thickness                                               | 0.55                                                                | same                                          |
| 7. Ovality                                                      | identical                                                           |                                               |
| 8. Kink stability                                               | identical                                                           |                                               |
| 9. Appearance                                                   | identical,<br>frosted surface effect from all production facilities |                                               |
| 10. Drug absorption/adsorption                                  | no significant difference                                           |                                               |
| 11. Pump compatibility (with selected non-dedicated IV pumps)   | confirmed by TÜV product service test report                        | no update                                     |
| 12. Bolus volume<br>(ref. to 1 m tubing, 40°, 2 bar)            | 5.8 ml/m                                                            | comparable                                    |
| 13. Shear stability 24 h                                        | comparable                                                          |                                               |
| 14. Reproduction toxicity<br>acc. to SCENIHR                    | non-toxic                                                           | reproductive effects                          |
| 15. REACH regulation conformity                                 | pre-registered                                                      | no registration                               |
| 16. Phthalates content                                          | none recognizable                                                   | yes                                           |
| 17. Intravenous application examination                         | Yes. No effects found.                                              | Yes, study with a small scope. Effects found. |

