

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; difference hardly noticeable	79 A
3. Plasticizer migration in contact with 10 % lipid solution	241 µg/24 h / 450 µg/24 h = - 54 %	
4. Inner diameter of standard tubing	3 mm, more homogenous, fewer variations, better constancy	
5. Outer diameter of standard tubing	4.1 mm, more homogenous, fewer variations, better constancy	
6. Wall thickness	0.55	same
7. Ovality	identical	
8. Kink stability	identical	
9. Appearance	identical, 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 (ref. to 1 m tubing, 40°, 2 bar)	5.8 ml/m	comparable
13. Shear stability 24 h	comparable	
14. Reproduction toxicity 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.

