Risk assessment of multilayers hoses

Issues

 Migration risk assessment of volatiles substances originating from non-evaluated material layer

Migration risk assessment of non-evaluated substances

behind a "barrier" layer

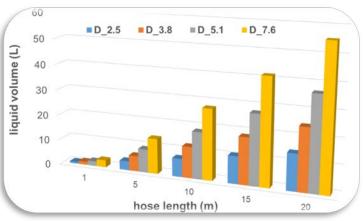
 Lack of specified regulations and guidance for repeated uses or in contact with flow

 Variation of geometries of hoses and use conditions

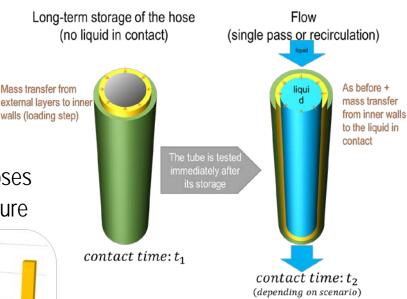


Our contributions

- ✓ Material deformulation
- Chained modeling using tiered-approach
- ✓ Identification of acceptable operating conditions for the hoses
- ✓ Estimation of consumer exposure



Acceptable operating condition (e.g. liquid volume) according to hose lengths and hose diameters



Application areas

Total contact time = $t_1 + t_2$

- Kitchenwares
- Biotechnological devices
- > Industrial equipments

