The permeation resistance of fluoropolymers across a wide range of fuels is excellent. Several common Dyneon fluoropolymers used in multi-layer tube and hose are illustrated here in CM15, CE10, and Reference Fuel C.

Dyneon offers THV X 815G, ETFE, and FEP to meet the ultra-low permeation requirements of PZEV and LEV II. These permeation constants may be able to help you in designing a PZEV or LEV II compliant fuel system.

Illustrated below is the permeation of fluoroplastic barrier materials using a Gravimetric Weight Loss Method (modified ASTM D814), which is pending adoption by SAE.
Technical Information and Test Data
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