High Temperature Tests of Key Automotive Fuel Hose Specifications

GM213M

- High T burst: 1hr @ 125 deg C; >/= 1380 kPa.
- Cold T Flex: 24 hrs@ 110 deg C then bend around mandrel 180 deg @ -40 deg C; no fracture.
- Kink resistance: 1 hr @ 121 deg C- positioned on fixture, ball bearing pass through followed by conductivity measurement.

FORD- WSS-M98D-A9/10

- Temperature Range: -40 deg C to +140 deg C; sustained half-life (50 % physical property loss) of 120 deg C/150 hrs; intermittent excursion to 140 deg C/ 150 hrs.
- High Temp burst @ 90 deg C- 2.5MPa.
- Heat aging 168 hrs/115 deg C- burst Pressure >/= 6.0 MPa
- 1008 hrs @ 90 deg C- burst pressure >/= 5.0 MPa.
- Dimensional Stability: 168 hrs@ 120 deg C- 3% max change in length.

VISTEON

- Burst Pressure @ 115 deg C – 3447 kPa.
- Flexible hose pull-off: @ 115 deg C- 454 N minimum.
- Heat aging: 130 deg C/100 hrs// 120deg C/1 hr// 20 deg C/1hr-b samples must pass leakage test defined in section #4.1.
- Elevated temperature sealing: 130 deg C- 1.5 hr ramp-up then 130 deg C/ 8 hrs. – then check leakage @ 210 kPa; raise P in 50 kPa increments up to 500 kPa. Must pass leakage requirement