



EXCELON TE LAB/VAC TUBING TECHNICAL SERVICE REPORT



| Physical Property | Test Method | THERMO B920086 FORMULATION | TYGON R-3603 FORMULATION |
|---|-------------------------|----------------------------------|--------------------------------|
| Durometer (Shore A, 10 second delay) | D2240-03 | 55 | 55 |
| Color | Visual | Clear | Clear |
| Specific Gravity | D792-00 | 1.19 | 1.18 |
| Tensile Strength (psi) | D638 | 1,703 | 1,650 |
| Elongation at Break, % | D638 | 427 | 450 |
| Tear Resistance (lb-ft/inch) | D1004-03 | 201 | 125 |
| Water Absorption, % 24 hrs @ 23C | D570-98 | 0.06 | 0.24 |
| Compression Set % @ 158F for 22 hrs | D395-03 Method B | 61 | 61 |
| Brittleness By Impact Temperature, F | D746-98 | -55 | -58 |
| Max. Recommended Operating Temperature, F | - | 165 | 165 |
| Dielectric Strength. v/mil | D149-97 | TBD | 608 |
| 100% Tensile Modulus (psi) | D638 | 587 | 650 |
| Tensile Set, % | D412-98 | 112 | 107 |
| Comparative Peristaltic Pump Tubing Life - 1/4" x 3/8" Tube @ 10 psi Back Pressure | Hours to Failure | 80 | 30 |
| Comparative Leachable Test Results Ion Chromatography per ASTM D4327 | Flouride | < 10 ppm | < 10 ppm |
| | Chloride | < 10 ppm | < 10 ppm |
| | Bromide | < 10 ppm | < 10 ppm |
| | Sulfate | < 10 ppm | < 10 ppm |
| Meets FDA Code of Federal Regulations Part 175.300 Criteria | - | YES | YES |