



2360 Palumbo Drive
Lexington, KY 40509
(859) 269-2351

Date: 2/5/2004
Compound: AS NOTED
Size: 2-214
Page: 1 of 1

LABORATORY TEST REPORT

| | AMS-R-25988 | L1223-60 | LM158-60 |
|---|--------------|----------------------------------|--------------|
| | Requirement | Test Results | Test Results |
| <u>Original Physical Properties, ASTM D412, D2240</u> | | | |
| Hardness, Shore A, pts. | 60 ± 5 | 60 | 60 |
| Tensile Strength, psi, min | 700 | 1066 | 884 |
| Ultimate Elongation, %, min | 150 | 286 | 327 |
| Specific Gravity | 1.46 ± 0.03 | 1.46 | 1.48 |
| <u>Low-Temperature Resistance, ASTM D1329</u> | | | |
| Temperature Retraction, TR, Point, Max | -57°C(-70°F) | -60.7°C(-77.3°F)-60.1°C(-76.2°F) | |
| <u>Compression Set: (70 h @ 75±5°F), ASTM D395 Method B</u> | | | |
| Percent of Original Deflection, max., % | | | |
| Under 0.110 inch | 20 | 11.7 | 8.8 |
| Over 0.110 inch | 15 | 5.5 | 11.8 |
| <u>Dry Heat Resistance: (70 h @ 392°F), ASTM D573</u> | | | |
| Hardness Change | +10, -5 | 0 | 4 |
| Tensile Change, %, max | -25 | -11.2 | -16 |
| Elongation Change, %, max | -25 | -0.3 | 0 |
| Weight Loss, %, max | -2 | -1.8 | -0.57 |
| <u>Compression Set, (22 h @ 347°F), ASTM D395 Method B</u> | | | |
| Percent of Original Deflection, max., % | | | |
| Under 0.110 inch | 45 | 15.2 | 12.1 |
| Over 0.110 inch | 40 | 11.8 | 23.3 |
| <u>AMS 3021, 70h @ 302°F</u> | | | |
| Hardness Change | ±15 | -6 | -10 |
| Tensile Change, %, max | -45 | -26.8 | -22 |
| Elongation Change, %, max | -30 | -6.6 | -5 |
| Volume Change, %, max | +1 to +15 | +6.8 | +11.5 |
| COMPRESSION SET, %, max | | | |
| Under 0.110 inch | 50 | | |
| Over 0.110 inch | 45 | 6.7 | 16.4 |
| <u>Aromatic Fuel Resistance: Fuel B, (22 h @ 73°F), ASTM D471</u> | | | |
| Hardness Change | -20 | -5 | -10 |
| Tensile Change, %, max | -50 | -37.2 | -24 |
| Elongation Change, %, max | -40 | -23.8 | -10 |
| Volume change, % | +1 to +25 | +18 | +23.3 |

Prepared By: Tim Pingleton
Tim Pingleton R&D Engineer

Approved By: Dale M. Ashby
Dale M. Ashby, Division Technical Director