



# COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division (OES) North America

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## MATERIAL REPORT

LTR: 1013111

|  |   |
|--|---|
| <b><u>Title:</u></b>                         | Evaluation of Parker Compound E0803-70  |
| <b><u>Elastomer Type:</u></b>                | Ethylene-Propylene Rubber (EPR, EPDM)   |
| <b><u>Purpose:</u></b>                       | To obtain typical test data.  |
| <b><u>Specification:</u></b>                 | ASTM D2000 M4CA710 A25 B35 EA14 Z1 (Specific Gravity Report) Z2 (Low Temperature Resistance Report)   |
| <b><u>Color:</u></b>                         | Black   |
| <b><u>Recommended Temperature Range:</u></b> | -70°F to 250°F  |
| <b><u>Recommended For:</u></b>               | Hot water and steam up to 300°F, glycol based brake fluids (DOT3 and DOT4), silicone based brake fluids (DOT5), many organic and inorganic acids, cleaning agents, sodium and potassium alkalis, many polar solvents (alcohols, ketones, esters), ozone, aging and weather resistant. |
| <b><u>Not Recommended For:</u></b>           | Mineral oil products (oils, greases and fuels)  |
| <b><u>Additional Approvals:</u></b>          | N/A   |

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## REPORT DATA

| <u>Original Physical Properties</u> | <u>Test Method</u> | <u>Spec Limits</u> | <u>Test Results</u> |
|-------------------------------------|--------------------|--------------------|---------------------|
| Hardness, Shore A, pts.             | ASTM D2240         | 70 ± 5             | 75                  |
| Tensile Strength, psi. min          | ASTM D412          | 1450               | 2197                |
| Ultimate Elongation, %              | ASTM D412          | 180                | 216                 |
| Specific Gravity (Z1)               | ASTM D297          | report             | 1.15                |

### (A25) Dry Heat Resistance, 70 hrs. @ 257°F

|                      |           |      |     |
|----------------------|-----------|------|-----|
| Hardness Change, pts | ASTM D573 | ± 15 | + 1 |
| Tensile Change, %    |           | ± 30 | + 4 |
| Elongation Change, % |           | ± 50 | + 5 |

### (B35) Compression Set (Plied), 22 hrs. @ 257°F

|                                     |                    |    |   |
|-------------------------------------|--------------------|----|---|
| Percent of Original Deflection, max | ASTM D395 Method B | 70 | 7 |
|-------------------------------------|--------------------|----|---|

### (EA14) Fluid Immersion, H2O, (70 hrs. @ 212°F)

|                  |           |     |     |
|------------------|-----------|-----|-----|
| Volume Change, % | ASTM D471 | ± 5 | + 1 |
|------------------|-----------|-----|-----|

### Low Temperature Resistance (Z2)

|                 |            |        |      |
|-----------------|------------|--------|------|
| TR-10 degrees C | ASTM D1329 | report | - 43 |
|-----------------|------------|--------|------|

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