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Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KK1793

TITLE: Evaluation of Parker Compound C0873-70 to ASTM D 2000 3BC 715 A14 B14 EO14 EO34 specifications.

PURPOSE: To show compliance of all phases of specification.

CONCLUSION: Parker Compound C0873-70 meets or exceeds all phases of the specification.

Recommended temperature limits: -35°F to 225°F

Recommended For

Carbon Dioxide

Ammonia

Refrigerants

Silicone oil and grease

Water and water solvents at low temperatures

Not Recommended For

Aromatic hydrocarbons, e.g, benzene

Chlorinated hydrocarbons

Polar solvents, e.g. ketones, esters, ethers, acetones

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REPORT DATA

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| | ASTM D2000 3BC 715 | | C0873-70 Test |
|--|----------------------|---------------|---------------|
| | A14 | B14 EO14 EO34 | Results |
| | <u>Specification</u> | | |
| <u>Basic Physical Properties</u> | | | |
| Hardness | 70 ± 5 | | 72 |
| Tensile Strength, psi. | 1500 | | 1832 |
| Elongation, % | 250 | | 293 |
| | | | |
| <u>B14, Compression Set, 22 H @ 212°F</u> | | | |
| % Max. Deflection | 35 | | 17.7 |
| | | | |
| <u>A14, Heat Aging, 70 H @ 212°F</u> | | | |
| Hardness Change, pts | +15 | | +6 |
| Tensile Change, % | -15 | | -14.4 |
| Elongation Change, % | -40 | | -23.9 |
| | | | |
| <u>E014, Fluid Immersion, ASTM #1 Oil, 70 H @ 212 °F</u> | | | |
| Hardness Change, pts. | ±10 | | -3 |
| Tensile Change, %, max | -30 | | +2 |
| Elongation Change, % max. | -30 | | -22 |
| Volume Change, % max. | -10 to +15 | | +8.5 |
| | | | |
| <u>EO34, Fluid Immersion, ASTM #3 Oil, 70 H @ 212 °F</u> | | | |
| Tensile Change, %, max | -60 | | -36.9 |
| Elongation Change, % max. | -50 | | -27.3 |
| Volume Change, % max. | +100 | | +65.6 |