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Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KK2149A

DATE: 1/07/92

- TITLE:** Evaluation of Parker Compound E0803-70 to ASTM D2000 line call out M3CA714 A25 B35 EA14 F17 G21.
- PURPOSE:** To verify Parker Compound E0803-70 meets all phases of the specification.
- CONCLUSION:** Parker Compound E0803-70 meets all phases of the specification.

Recommended temperature limits: -70°F to 250 °F

Recommended For

Hot water and steam

Glycol based brake fluid

Many organic and inorganic acids

Cleaning agents, soda and potassium alkalis

Phosphate –ester based hydraulic fluids

Silicone oil and grease

Polar solvents

Ozone, Aging and weather resistance

Not Recommended For

Mineral oil products

Parker O-Ring Division
2360 Palumbo Drive
Lexington, Kentucky 40509
(859) 269-2351



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E0803-70 TO ASTM D2000
M4CA714A25B35EA14F17G21

BASIC REQUIREMENTS

Hardness, Shore A, pts.
Tensile Strength, MPa (psi.)
Elongation, %

ASTM D2000

70 ± 5
14 (2031)
200

RESULTS

72
17.6 (2548)
280

HEAT AGE

70 HRS. @ 125°C (257°F)

Hardness Change, pts.
Tensile Change, %
Elongation Change, %

±15
±30
-50

+ 3
- 2.9
+ 1.4

COMPRESSION SET

22 HRS. @ 100°C (212°F)

max., %

60

10.2

SUFFIX REQUIREMENTS:

A25, HEAT AGE D865

70 HRS. @ 125°C (257°F)

Hardness Change, pts.
Tensile Change, %
Elongation Change, %

+10
-20
-40

+ 2
- 5.9
+ 2.9

B35, COMPRESSION SET

22 HRS. @ 125°C (257°F)

Max, %

70

10.7

EA14, WATER RESISTANCE

70 HRS. @ 100°C (212°F)

Volume Change, %

±5

- .07

F17, LOW TEMP BRITTLENESS

D2137 3 MIN. @ -40°C (-40°F)

Pass

Pass

G21, TEAR RESISTANCE D624 DIE C

Min, KN/m (psi)

26 (148)

36.8 (210)

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