



MATERIAL REPORT

REPORT NUMBER: KB4425

DATE: 09/01/84

TITLE: Evaluation of Parker Compound P0642-70

PURPOSE: To document conformance to acceptance tests.

CONCLUSION: Parker compound P0642-70 meets these requirements

Recommended Temperature Range: -40 to 180F

Recommended for: petroleum oils, ozone, silicone oil,
propane, butane

Not Recommended for: ketones, esters, ethers, alcohols,
glycols, steam, alkalis, amines, acids

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REPORT DATA

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COMPOUND: P0642-70

SIZE: 2-223

O-RINGSORIGINAL PHYSICAL PROPERTIESSPECIFICATION

Hardness, Shore A, pts.
Tensile Strength, psi.
Elongation, %
180° Flat Bend
Low Temperature Flex,
5 hrs @ -65°F

75 ± 5
750 min.
200 min.
No cracks

No cracks

70
4290
390
No cracks

No cracks

ASTM #3 OIL, 70 HRS. @ 212°F

Hardness Change
Tensile Change
Elongation Change
Volume Change
180° Flat Bend
Low Temperature Flex,
5 hrs. @ -65°F

+25
-25% max.
-50% max.
-50% max
No cracks

No cracks

70 (0)
3300 (-23.0)
355 (-9.0)
+ 3.4
No cracks

No cracks

MIL-1-7808, 70 HRS. @ 212°F

Hardness Change
Tensile Change
Elongation Change
Volume Change
180° Flat Bend
Low Temperature Flex,
5 hrs. @ -65°F

-20 max.
-25% max.
-25% max.
0 to +20%
No cracks

No cracks

65 (-5)
3630 (-15.4)
450 (+15.4)
+5.3
No cracks

No cracks

OVEN AGE, 70 HRS @ 212°F

Hardness Change
Tensile Change
Elongation Change
180° Flat Bend
Low Temperature Flex,
5 hrs. @ -65°F

+20
-20%
-60%
No cracks

No cracks

75 (+5)
4455 (+3.8)
470 (+20.6)
No cracks

No cracks

COMPRESION SET,
70 HRS. @ 212°F

% Deflection

75

58.0