



COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division (OES) Global Business Unit

MATERIAL REPORT 2/17/17

Title: Evaluation of Parker Compound, E1561-60

Elastomer Type: Ethylene-Propylene Rubber (EPR, EPDM)

Purpose: To obtain typical test data.

Specification: ASTM D2000 M3DA610 A26 B36 EA14 F19 G11 G21 Z1 = Elongation of 150% min.

Color: Black

Recommended Temperature Range: -70°F to 250°F

Recommended For: Hot water and steam, glycol based brake fluids (DOT 3 and DOT 4), silicone based brake fluids (DOT 5), many organic and inorganic acids, cleaning agents, sodium and potassium alkalis, many polar solvents (alcohols, ketones, esters), ozone, aging, and weather resistance.

Not Recommended For: Mineral oil products (oils, greases, and fuels)

Additional Approvals: NSF 61

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REPORT DATA

Original Physical Properties

Hardness, Shore A, pts.

Tensile Strength, PSI (MPa)

Ultimate Elongation, %

Test Method

ASTM D2240

ASTM D412

ASTM D412

Spec Limits

60 ± 5

1450 (10)

150

Test Results

65

2175 (15)

264

(A26) Heat Age

70 hrs. @ 302°F (150°C)

Hardness Change, pts

Tensile Strength Change, %

Ultimate Elongation, %

ASTM D573

+10

-20

-20

+4

+15

-4

(B36) Compression Set (Plied)

22 hrs. @ 302°F (150°C)

Percent of Original Deflection, Max

ASTM D395

Method B

25

15

(EA14) Fluid Resistance

Water, 70 hrs. @ 212°F (100°C)

Volume Change, %

ASTM D471

± 5

+ 2

(G11) Tear Resistance

Die 'B' (kN/m)

ASTM D624

17

28

(G21) Tear Resistance

Die 'C' (kN/m)

ASTM D624

17

42

(F19) Low Temperature Brittleness

Non-Brittle after 3 min. @ -67°F (-55°C)

ASTM D2137

Pass

Pass