Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KK2223
DATE: 01/06/97

TITLE: Evaluation of Parker Compound E3609-70 to ASTM D200 line callout M3CA 710 A25 EA14 F18 Z1 Z2 Z3 Z4 Z5.

PURPOSE: To verify that Parker Compound E3609-70 meets or exceeds all phases of the above specification.

CONCLUSION: Parker Compound E3609-70 meets or exceeds all phases of the above 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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Original Physical Properties, ASTM D412	M3CA 710 A25 EA14 F18 Z1-Z5	E3609-70 Platen Results
Hardness, Shore A, pts	65 to 75	70
Tensile Strength, psi, (MPa), min	1450 (10.0)	1508 (10.4)
Elongation, %, min (Z5)	150	179
Heat Aging (70 Hrs. @ 125°C), ASTM D573		
Hardness Change, pts, max	–5 to +5	+1
Tensile Strength Change, %, max	-20	-13.4
Elongation Change, %, max	-15	-6.7
Compression Set (22 Hrs. @ 100°C), ASTM D395		
Permanent Compression Set, %, max	60	3.6
Heat Aging (70 Hrs. @ 100°C), ASTM D865		
Hardness Change, pts, max	+10	+1
Tensile Strength Change, %, max (Z4)	-40	-29.5
Elongation Change, %, max	-40	-24.6
Water Immersion (70 Hrs @ 100°C), ASTM D471		
Hardness Change, pts	No Limit	-2
Volume Change, %	+1.0	+1.0
Low Temperature Brittleness		
3 min @ -50°C	Pass	Pass
Z1, Compression Set (70 Hrs @ 150°C), ASTM D395		
Deflection, % max	50	29.3
Z2, Steam 70 Hrs @ 150°C, 2-214 O-Rings		
Hardness Change, pts, max	+/- 10	-5
Tensile Strength Change, %, max (Z4)	-70	-56.3
Elongation Change, %, max	-30	-28.6
Volume Change, %	+/- 10	+5.3
Z3, Heat Age (70 Hrs @ 100°C), ASTM D573		
Hardness Change, pts, max	+/- 5	0
Tensile Strength Change, %, max (Z4)	+/- 20	+2.8
Elongation Change, %, max	+/- 20	-9.5

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