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Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

Report Number: KK2224
Date: 1/16/97

TITLE: Evaluation of Parker Compound E0540-80 to ASTM D200 line call out M3DA 808 A26 B36 G21 Z1 Z2 Z3 Z4 Z5 Z6

PURPOSE: To verify that E0540-80 meets the above specification.

CONLCUSION: Parker Compound E0540-80 meets or exceeds 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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	M3DA 807 A26 B36 G21 Z1-Z7	E0540-80 Platen Results
Original Physical Properties, ASTM D412		
Hardness, Shore A, pts (Z1)	70 to 80	78
Tensile Strength, psi, (MPa), min	1160 (8.0)	1580 (10.9)
Elongation, %, min	150	174
A26 Heat Aging (70 hrs. @ 150°C), ASTM D573		
Hardness Change, pts, max	+/- 10	+7
Tensile Strength Change, %, max	+/- 30	-13.5
Elongation Change, %, max	-50	-13.2
B36 Compression Set (22 hrs. @ 150°C), ASTM D395		
Permanent Compression Set, %, max (Z7)	30	25
G21 Tear Resistance, ASTM D624, Die C		
KN/m (psi)	17 (107.6)	21.3 (135)
Heat Age, SAE J2236, 1000 Hrs @ 135°C (Z2)		
Tensile Strength Change, %, max	-70	-56.8
Elongation Change, %, max	-70	-57.1
GM8277M Coolant (70 Hrs @ 150°C), ASTM D471 (Z3)		
Tensile Strength Change, %, max	-50	-5.4
Elongation Change, %, max	-35	+9.2
Volume Change, %	+35	-0.7
Compressive Stress Relaxation (Z4) **Test Method ISO 3384**		
% Sealing Force Retained, min	20	54.4
Low Temperature Retraction (Z5)		
TR-10 ASTM D1329	-40°C	-49°C
Test on 2-214 O-Rings (Z6) **Heat Aging (70 hrs. @ 150°C), ASTM D865**		
Hardness Change, pts, max	+10	+5
Tensile Strength Change, %, max	-20	-16.2
Elongation Change, %, max	-20	+24.7

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