Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

REPORT NUMBER: KT2156
DATE: 11/22/91

TITLE: Evaluation of Parker Compounds V1164-75 and V0747-75 to ASTM D2000 M2HK810 A1-10 B38 EF31 E078 Z1 (75 +/- 5 durometer)

PURPOSE: To determine if V1164-75 and V0747-75 meet the callout.

CONCLUSION: Both compounds meet the requirements.

Recommended temperature limits: -15^0F to 400^0F

Recommended For

Petroleum, mineral, and vegetable oils
Silicone fluids
Aromatic hydrocarbons (benzene, toluene)
Chlorinated hydrocarbons
High vacuum
Ozone, weather, aging resistance

Not Recommended For
Hot water and steam
Auto and aircraft brake fluids
Amines
Ketones
Low molecular weight esters and ethers

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

Compound Data Sheet
Parker O-Ring Division United States

REPORT DATA

Report Number:	KT2156

ASTM D2000 ORIGINAL PHYSICALS	M2HK810 A1-10 B38 EF31 E078 Z1 (75 (±5) DURO)	V1164-75 PLATENS	0747-75 PLATENS
Hardness (Z1)	75 ± 5	75	75
Tensile Strength, MPa (psi), min.	10 (1450)	13.2 (1913)	13.9 (2025)
Elongation, %, min.	150	185	185
Specific Gravity	As Reported	1.85 (± .02)	1.83 (± .02)
A1-10 HEAT AGE 70 HRS. @ 250°C (482°F)			
Hardness Change, %	+ 10	0	0
Tensile Change,	- 25	- 6	- 2
Elongation,%	- 25	+ 4	+15
ASTM #3 OIL IMMERSION 70 HRS. @ 150°C (302°F)			
Volume Change, %	+ 10	+ 2	+ 2.6
COMPRESSION SET, PLIED 22 HRS. @ 175°C (347°F)			
% of Original Deflection	35	11.5	11.9
EF31 FUEL C IMMERSION 70 HRS @ 23°C (73°F)			
Hardness Change, %	± 5	0	0
Tensile Change, %	-25	-16	-8
Elongation Change, %	-20	-10	-9
Volume Change, %	0 to +10	+3	+3.5
EO78 ASTM SERVICE FLUID #101, ANDEROL 774, 70 HRS. @ 200°C (392°F)			
Hardness Change, %	-15 to +5	-8	-8
Tensile Change, %	-40	-18.9	-15
Elongation Change, %	-20	-7.4	+20
Volume Change, %	0 to +15	+11.4	+13.1
B38 COMPRESSION SET, PLIED 22 HRS. @ 200°C (392°F)			
% of Original Deflection	50	14.5	12.6

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