



MATERIAL REPORT

TITLE: Parker Compound KA453-80

PURPOSE: To provide documentation to the specification as well as provide a general profile of this material.

CONCLUSION: This compound passes ASTM D2000 specification
M4DH817 A26 B36 EO16 EO36 Z1 Z2
Z1= 125% min. elongation
Z2= compression set 70h at 150C
Z3= TR-10 -23C or colder

Recommended Temperature Range: -25°F to 300°F

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

REPORT DATA

ASTM D2000 <u>ORIGINAL PHYSICALS</u>	M4DH817A26 <u>B36EO16EO36Z1Z2Z3</u>	KA453-80 <u>Results</u>
Hardness	80 ± 5	84
Tensile Strength, MPa, min.	17	19.6
Elongation, %, min. (Z1)	125	187
Specific Gravity	1.26± .02	1.28
A26 HEAT AGE		
<u>70 HRS. @ 150°C (302°F)</u>		
Hardness Change, %	+10	+9
Tensile Change, %	- 15	+19
Elongation, %	- 25	-20
B36 COMPRESSION SET,		
<u>22 HRS. @ 150°C (302°F)</u>		
% of Original Deflection	35	15
(Z2) COMPRESSION SET		
<u>70 HRS. @ 150°C (302°F)</u>		
% of Original Deflection	30	21
EO16 FLUID IMMERSION		
ASTM #1 OIL		
<u>70 HRS @ 150°C (302°F)</u>		
Hardness, pts (Chg, pts)	-5 to +10	+4
Tensile Strength, psi (Chg %)	-20 max	-4
Elongation Decrease, (Chg %)	-30 max	-11
Volume Change, %	-10 to +5	-6.7
EO36 FLUID IMMERSION		
ASTM #3 OIL		
<u>70 HRS @ 150°C (302°F)</u>		
Hardness, pts (Chg, pts)	-15 max	-2
Tensile Strength, psi (Chg %)	-40 max	-11
Elongation Decrease, (Chg %)	-30 max	-22
Volume Change, %	+25 max	+3.3
(Z3) LOW TEMP. RESISTANCE		
TR-10, °C min	-23	-26