



# COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division United States

## MATERIAL REPORT



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- 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

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## REPORT DATA

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



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