



MATERIAL REPORT

TITLE: Comparison of Parker Compound V1164-75 to the requirements of ASTM D2000 specification M2HK810 A1-10 B38, EF31, E078, Z1, (75 ± Durometer).

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

CONCLUSION: The compound exhibits very good physical and chemical attributes as is demonstrated by the requirements of the above ASTM D2000 specification.

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REPORT DATA

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