



MATERIAL REPORT

2/20/2007

TITLE: Parker Compound V1289-75

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

CONCLUSION: This compound meets the requirements of ASTM D2000 M4HK707 A1-11 B38 EF31 EO78 Z1 Z2 Z3 Z4
Z1 = Hardness 75 +/- 5 Shore A
Z2 = 100% minimum elongation
Z3 = TR-10 -36C or colder
Z4 = A1-11 -50% max tensile change

TEMPERATURE RANGE: -50F to 400F (-45C to 204C)

RECOMMENDED FOR: Oils and greases made from petroleum or synthetic hydrocarbon base stock, silicone fluids, aromatic fuels and solvents, chlorinated hydrocarbon solvents, alcohols, cold water, acids, extreme low temperatures, ozone and weathering.

NOT RECOMMENDED FOR: Automotive brake fluid, commercial aircraft hydraulic fluid, polar solvents (MEK, acetone, etc.)

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REPORT DATA

Date: 2/20/2007
Batch Number:80047465
Compound: V1289-75

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Results (Platen)</u>
(Z1)Hardness, Shore A, pts.	ASTM D2240	75 ± 5	76
Tensile Strength, MPa, min	ASTM D412	10.0 min	16.9
(Z2)Ultimate Elongation, % min	ASTM D412	100 min	155
<u>(A1-11)Dry Heat Resistance</u>			
<u>70 hrs. @ 572°F</u>			
Hardness Change, pts.	ASTM D573	+10 max	+2
(Z4) Tensile Change, %		-50 max	-41
Elongation Change, %		-20 max	+61
<u>(B38)Compression Set</u>			
<u>22 hrs. @ 392°F, (plied)</u>			
Percent of Original Deflection, max	ASTM D395 Method B	50%	15
<u>Fluid Immersion</u>			
<u>IRM 903 Oil, 70 hrs. @ 302°F</u>			
Volume Change, %	ASTM D471	+10% max	+1
<u>(EF31)Fluid Immersion</u>			
<u>Fuel C, 70 hrs. @ 73°F</u>			
Hardness Change, pts.	ASTM D471	± 5	-6
Tensile Change, %		-25 max	-18
Elongation Change, %		-20 max	-17
Volume Change, %		0 to +10	+6
<u>(EO78) Fluid Immersion</u>			
<u>Service Fluid 101, 70h @ 392°F</u>			
Hardness Change, pts.	ASTM D471	-15 to +5	-3
Tensile Change, %		-40 max	-14
Elongation Change, %		-20 max	+4
Volume Change, %		0 to +15	+7
<u>(Z3)Low Temperature Resistance</u>			
TR-10,°C	ASTM D1329	-36	-38