



MATERIAL REPORT

Date: 12/7/2006

TITLE: General evaluation of Parker HNBR compound KA157-70.

PURPOSE: Test compound KA157-70 to the requirements of ASTM D2000 M3DH710 A26 B36 EO16 EO36 Z1 (Non-brittle after 3 minutes at -18°C).

CONCLUSION: Parker compound KA157-70 is capable of meeting the requirements of this specification.

Temperature Range: -25 to 300 / 325°F

Recommended For: Oils and greases made from petroleum or synthetic hydrocarbon base stock, weather and ozone, cold and hot water, alcohols, glycols, R-134a refrigerant

Not Recommended For: Automotive brake fluid, commercial aircraft hydraulic fluid, concentrated strong acids, polar solvents (MEK, acetone, etc.) chlorinated hydrocarbon solvents

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REPORT DATADate: 12/7/2006
Compound: KA157-70

<u>Original Physical Properties</u>	<u>ASTM Test</u>		<u>Results</u>
	<u>Method</u>	<u>Limit</u>	<u>(Platen)</u>
Hardness, Shore A	D2240	70 +/- 5	67
Tensile Strength, MPa	D412	10.0 min	22.0
Elongation at Break, %	D412	200 min	304
Dry Heat Resistance			
<u>70 Hrs. @ 302° F (A26)</u>			
Hardness Change, pts.	D865	+10 max	+3
Tensile Strength Change, %	D865	-25 max	+1
Elongation Change, %	D865	-30 max	-14
Compression Set (B36)			
<u>22 Hrs. @ 302° F</u>			
% of Original Deflection	D395 Method B	50% max	12%
IRM 901 Oil (EO16)			
<u>70 Hrs. @ 302° F</u>			
Hardness Change, pts.	D471	-5 to +10	+4
Tensile Strength Change, %	D471	-20 max	+3
Elongation Change, %	D471	-30 max	-18
Volume Change, %	D471	+/- 5	-3
IRM 903 Oil (EO36)			
<u>70 Hrs. @ 302° F</u>			
Hardness Change, pts.	D471	-15 max	-9
Tensile Strength Change, %	D471	-30 max	-14
Elongation Change, %	D471	-30 max	-9
Volume Change, %	D471	+25 max	+17
<u>Low-Temp. Resistance (Z1)</u>			
3 mins @ -18°C	D2137	Non-brittle	Pass

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