



MATERIAL REPORT

REPORT NUMBER:

DATE: 2/1/2002

TITLE: Evaluation of Parker Compound SM153-70 (11357)
PURPOSE: To obtain general data

Recommended temperature limits: -60⁰F to 450⁰F

Recommended For

Dry heat

Some petroleum oils

Moderate water resistance

Fire resistant hydraulic fluids (HFD-R and HFD-S)

Ozone, aging, and weather resistance

Low temperature

Not Recommended For

Ketones

Acids

Silicone oils

Auto and aircraft brake fluid



REPORT DATA

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	Test Results
Original Physical Properties, ASTM D412, D2240	
Hardness, Shore A, pts.	68
Tensile Strength, psi	1059
Ultimate Elongation, %	204
Compression Set, ASTM D395 Method B (70 hrs. @ 302°F)	
Percent of Original Deflection (plied)	10
Dry Heat Resistance, ASTM D573 (70 hrs. @ 437°F)	
Hardness Change, pts.	+6
Tensile Change, %	+7
Elongation Change, %	-11
Fluid Immersion, ASTM D471 ASTM #1 Oil, (70 hrs. @ 302°F)	
Hardness Change, pts.	-2
Tensile Change, %	+15
Elongation Change, %	-11
Volume Change, %	+2
Fluid Immersion, ASTM D471 IRM 903 Oil, (70 hrs. @ 302°F)	
Hardness Change, pts.	-18
Volume Change, %	+34
Tear Strength, Die B, ASTM D624	
kN/m	12
Low Temperature Brittleness, ASTM D2137	
Nonbrittle after 3 min. @ -67°F	Passed