



MATERIAL REPORT

DATE: 5/18/1998

TITLE: Evaluation of LM155-80 (formerly 11648).

PURPOSE: To obtain general data for LM155-80 (11648)

Recommended temperature limits: -90 °F to 350 °F

Recommended For

Aromatic mineral oils (IRM 903 oil)

Petroleum oils

Low molecular weight automatic hydrocarbons (benzene, toluene)

Jet Fuels

Chlorinated Solvents

Dry heat and low temp

Not Recommended For

Phosphate-esters

Acids

Ketones

Amines (ammonia)

Auto and aircraft brake fluids



REPORT DATA

LM155-80 2-214 o-ring Results

Basic Physical Properties

Hardness	77
Tensile Strength, psi.	985
Elongation, %	162

Heat Aging, 70 H @ 392 °F

Hardness Change, pts	+5
Tensile Change, %	-17
Elongation Change, %	-18

Fluid Immersion, AMS 3021, 70 H @ 302 °F

Hardness Change, pts	-13
Tensile Change, %	-21
Elongation Change, %	-8
Volume Change, %	+6

Compression Set, ASTM D395 Method B AMS 3021, 70 H @ 302°F

Percent of Original Deflection	37
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Fluid Immersion, TT-S-735 Type III, 22 H @ 75°F

Hardness Change, pts	-12
Tensile Change, %	-28
Elongation Change, %	-8
Volume Change, %	+18

Compression Set, 70 H @ 75°F

Percent of Original Deflection	18
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Compression Set, 22 H @ 347°F

Percent of Original Deflection (plied)	33
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Low Temperature

TR-10, °F	-71
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