



MATERIAL REPORT

TITLE: Evaluation of Parker Compound CB173-80 formerly 2598.

PURPOSE: To obtain general data for CB173-80.

Recommended temperature limits: -35°F to 250 °F

Recommended For

Carbon Dioxide

Ammonia

Refrigerants

Silicone oil and grease

Water and water solvents at low temperatures

Not Recommended For

Aromatic hydrocarbons, e.g, benzene

Chlorinated hydrocarbons

Polar solvents, e.g. ketones, esters, ethers, acetones



REPORT DATA

	<u>CB173-80 Test Results</u>
<u>Basic Physical Properties</u>	
Hardness	82
Tensile Strength, psi.	1885
Elongation, % min.	148
<u>Compression Set, 70 H @ 302°F</u>	
% Max. Deflection	38
<u>Fluid Immersion, ASTM #1 Oil, 70 H @ 212 °F</u>	
Hardness Change, pts.	+2
Tensile Change, %, max	+6
Elongation Change, % max.	-3
Volume Change, % max.	+1
<u>Fluid Immersion, IRM 903, 70 H @ 212 °F</u>	
Tensile Change, %, max	-14
Elongation Change, % max.	-20
Volume Change, % max.	+36
<u>Fluid Immersion, HCFC-123, 168 H @ 212 °F</u>	
Volume Change, % max.	+9
<u>Fluid Immersion, R-22 2-214 o-rings, 168 H @ 194 °F</u>	
Volume Change, % max.	+2
<u>Fluid Immersion, R-134a 2-214 o-rings, 168 H @ 194 °F</u>	
Volume Change, % max.	+6
<u>Fluid Immersion, 50% R-22/ 50% Mineral Oil 2-214 o-rings, 168 H @ 194 °F</u>	
Volume Change, % max.	+25
<u>Fluid Immersion, 50% R-22/ 50% Alkyl Benzene Oil 2-214 o-rings, 168 H @ 194 °F</u>	
Volume Change, % max.	+28
<u>Fluid Immersion, 50% R-134/ 50% Alkylene Glycol Oil 2-214 o-rings, 168 H @ 194 °F</u>	
Volume Change, % max.	+1
<u>Low Temperature Brittleness</u>	
Nonbrittle after 3 min. @ -40 ° C	Passed