Compound Data Sheet
Parker O-Ring Division United States

MATERIAL REPORT

DATE: 5/3/2000

TITLE: Evaluation of Parker Compound C1276-70.

PURPOSE: To obtain general data.

CONCLUSION: Parker Compound C1276-70 provides resistance to a broad range of refrigerants and lubricants, while performing in a broader temperature range than existing Neoprene formulations.

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

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REPORT DATA

	C1276 2-214 Test Results
Basic Physical Properties	
Hardness	72
Tensile Strength, psi.	1708
Elongation, %	220
Compression Set, 70 H @ 257 °F, 2-214 O-Rings	
% Max. Deflection	33.2
Heat Aging, 70 H @ 257 °F	
Hardness Change, pts	+5
Tensile Change, %	-8
Elongation Change, %	-10
Fluid Immersion, ASTM #1 Oil, 70 H @ 257 °F	
Hardness Change, pts.	-2
Tensile Change, %, max	+5
Elongation Change, % max.	-8
Volume Change, % max.	+3.7
Fluid Immersion, PAG Refrigerant Oil, 70 H @ 257 °F	
Hardness Change, pts.	-1
Tensile Change, %, max	-12
Elongation Change, % max.	-5
Volume Change, % max.	+4.8
Fluid Immersion, R134A, 70H @ RT	
Volume Change, % max.	+1.7
Glass Transition Temperature by DSC, 20°C/ min heat rate	
T(g) by DSC, °C	-42.1
Volume Change in Refrigerants and Refrigerant Lubricants	
R22/3GS oil, 50/50, 70H @ 125°C	+40.0
R12/3GS oil, 50/50, 70H @125°C	+27.2
R22, 70H @125°C	+4.1
R12, 70H @125°C	+2.4
R123, 70H @ 100°C	+21.1
R123/Mineral Oil, 50/50, 70H @ 100°C	+28.5
R134A, 70H @100°C	+3.0
PAG oil, 70H @ 100°C	+6.1
R134A/PAG oil, 50/50, 70H @100°C	+4.1
R22, 70H @ 100°C	+7.7
Mobil Arctic 22A oil, 70H @ 100°C	+38.9
R22/Mobil Arctic 22A, 50/50, 70 H @ 100 °C	+7.9

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