

Compound Data SheetParker O-Ring Division United States

MATERIAL REPORT



CONTACT US

DATE: 5-3-2000

TITLE: Evaluation of Parker Compound C1278-80.

PURPOSE: To obtain general data.

CONCLUSION: Parker Compound C1278-80 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

	C1278-80 2-214Test Results
Basic Physical Properties	0.4
Hardness Tangila Strangth, pai	81 1604
Tensile Strength, psi. Elongation, %	239
Compression Set, 70 H @ 257 °F, 2-214 O-Rings	239
% Max. Deflection	35.1
Heat Aging, 70 H @ 257 °F	
Hardness Change, pts	+6
Tensile Change, %	+5
Elongation Change, %	-16
Fluid Immersion, ASTM #1 Oil, 70 H @ 257 °F	0
Hardness Change, pts.	-2
Tensile Change, %, max Elongation Change, % max.	+8 +6
Volume Change, % max.	+3.4
Fluid Immersion, PAG Refrigerant Oil, 70 H @ 257 °F	
Hardness Change, pts.	-1
Tensile Change, %, max	-10
Elongation Change, % max.	-8
Volume Change, % max.	+4.2
Fluid Immersion, R134A, 70H @ RT	
Volume Change, % max.	+0.6
Glass Transition Temperature by DSC, 20°C/ min heat rate	-42.0
T(g) by DSC, °C <u>Volume Change in Refrigerants and Refrigerant Lubricants</u>	-42.0
	+35.9
R22/3GS oil, 50/50, 70H @ 125°C	+24.3
R12/3GS oil, 50/50, 70H @125°C	+24.3
R22, 70H @125°C	+3.3
D40, 7011 @40500	.1.0
R12, 70H @125°C	+1.9
R123, 70H @ 100°C	+18.8
R123/Mineral Oil, 50/50, 70H @ 100°C	+25.5
R134A, 70H @100°C	+2.4
PAG oil, 70H @ 100°C	+5.1
R134A/PAG oil, 50/50, 70H @100°C	+3.4
1734A/1 AO 011, 30/30, 7011 @ 100 O	10.4
R22, 70H @ 100°C	+6.6
Mobil Arctic 22A oil, 70H @ 100°C	+34.9
R22/Mobil Arctic 22A, 50/50, 70 H @ 100 °C	+6.8

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