COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division, North America

MATERIAL REPORT

Report Number: MTR 30962
1/25/2005

Title: Evaluation of Parker Compound

Elastomer Type: Fluorocarbon (FKM) V1226-75

Purpose: To obtain typical test data

Specification: ASTM D2000 M4HK710 A1-11 B38 EF31 EO78 Z1 Z2 Z3
Z1 = 75 ± 5 Durometer
Z2 = 150% Minimum Elongation
Z3 = Brown

Color: Brown

Recommended Temperature Range: -15°F to 400°F

Recommended For: Mineral oil and grease, IRM 901, IRM 902, IRM 903, nonflammable hydraulic fluids, silicone oils and greases, aliphatic hydrocarbons (propane, butane, natural gas), aromatic hydrocarbons (benzene, toluene), chlorinated hydrocarbons (trichloroethylene and carbon tetrachloride), gasoline, high vacuum, ozone, weather, and aging

Not Recommended For: Glycol based brake fluids, ammonia gas, amines, alkalis, superheated steam, and low molecular weight organic acids (formic and acetic acid)

Certifications: AMS 7276

REPORT DATA

Original Physical Properties	Test Method	Spec Limits	Results
(Z1) Hardness, Shore A, pts.	ASTM D2240	75±5	78
Tensile Strength, PSI	ASTM D412	1450	2328
(Z2) Ultimate Elongation, %	ASTM D412	150	181
(Z3) Color	-	Brown	Brown
(B38) Compression Set			
22 hrs. @ 392°F (200°C)	ASTM D395		
% of Original Deflection max.	Method B	50	9
(A1-11) Heat Age			
70 hrs. @ 527°F (275°C)			
Hardness Change, pts.	ASTM D573	+10	+1
Tensile Strength Change, %		-40	-19
Elongation Change, %		-20	+8
IRM 903 Resistance			
70 hrs. @ 302°F (150°C)			
Volume Change, %	ASTM D417	+10	+2
(EF31) Fluid Resistance			
Fuel C, 70 hrs. @ 73°F (23°C)			
Hardness Change, pts.	ASTM D471	±5	-3
Tensile Strength Change, %		-25	-24
Elongation Change, %		-20	-6
Volume Change, %		0 to +10	+2
(EO78) Fluid Resistance			
Service Fluid 101, 70 hrs. @ 392°F (200°C)			
Hardness Change, pts.	ASTM D471	-15 to +5	+1
Tensile Strength Change, %		-40	-26
Elongation Change, %		-20	-3
Volume Change, %		0 to +15	+4