COMPOUND DATA SHEET

Parker O-Ring Division, North America

MATERIAL REPORT

Report Number: 118258
9/30/2016

Title: Evaluation of Parker Compound

Elastomer Type: Fluorocarbon (FKM) V1260-75

Purpose: To obtain typical test data.

Specification: ASTM D2000 M2HK810 A1-10 B38 EF31 EO78 Z1
Z1 = Shore A of 75±5

Color: Black

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

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

Not Recommended For: Glycol based brake fluids, ammonia gas, amines, alkalis, and superheated steam

Additional Approvals: None

REPORT DATA

Original Physical Properties	Test Method	Spec Limits	Results
(Z1) Hardness, Shore A, pts.	ASTM D2240	75 ±5	78
Tensile Strength, PSI (Mpa)	ASTM D412	1450 (10)	2176
Ultimate Elongation, %	ASTM D412	150	222
Modulus at 100% Elongation, Mpa	ASTM D412	Report	8.6
Specific Gravity. ± 0.02	ASTM D297	1.80	1.81
Compression Set (Plied)			
22 hrs. @ 347°F (175°C)			
Percent of Original Deflection, Max	ASTM D395 Method B	35	22
(B38) Compression Set (Plied)			
22 hrs. @ 392°F (200°C)			
Percent of Original Deflection, Max	ASTM D395 Method B	50	22
(A1-10) Heat Age			
70 hrs. @ 482°F (250°C)			
Hardness Change, pts.	ASTM D573	+10	+1
Tensile Strength Change, %		-25	+3
Ultimate Elongation Change, %		-25	+6
Fluid Immersion			
IRM 903 Oil, 70 hrs @ 302°F (150°C)			
Volume Change, %	ASTM D471	± 10	2
(EF31) Fluid Immersion			
Reference Fuel C, 70 hrs. @ 73°F (23°C)			
Hardness Change, pts.	ASTM D471	± 5	0
Tensile Strength Change, %		-25	-1
Ultimate Elongation Change, %		-20	+18
Volume Change, %		0 to +10	+3
(E078) Fluid Resistance			
Service Fluid 101, 70 hrs @ 392°F (200°C)			
Hardness Change, pts.	ASTM D471	-15 to +5	+1
Tensile Strength Change, %		-40	+3
Ultimate Elongation Change, %		-20	-2
Volume Change, %		0 to +15	+4