COMPOUND DATA SHEET

Parker O-Ring & Engineered Seals Division North America

MATERIAL REPORT

REPORT NUMBER: MTR128786
4/25/2012

Title: Evaluation of Parker Compound

Elastomer Type: Ethylene Propylene (EPDM) E0740-75

Purpose: To obtain typical test data.

Specification: ASTM D2000 M3DA710 A26 B36 EA14 Z1 Z2
Z1 = 75 ± 5 durometer
Z2 = Elongation min, 130%

Color: Black

Recommended Temperature Range: -70°F to 250°F

Recommended For: Hot water and steam up to 400°F, glycol based brake fluids (DOT3 and DOT4), silicone based brake fluids (DOT5), many organic and inorganic acids, cleaning agents, sodium and potassium alkalis, many polar solvents (alcohols, ketones, esters), ozone, aging and weather resistance.

Not Recommended For: Mineral oil products (oils, greases, and fuels)

Additional Approvals: USP VI, USP <87>

REPORT DATA

Original Physical Properties	Test Method	Spec Limits	Results
(Z1) Hardness, Shore A, pts.	ASTM D2240	75 ± 5	73
Tensile Strength, PSI (Mpa)	ASTM D412	1450 (10)	2482
(Z2) Ultimate Elongation, %	ASTM D412	130	160
(A26) Heat Age			
70 hrs. @ 302°F (150°C)			
Hardness Change, pts.	ASTM D865	+10	+4
Tensile Strength Change, %		-20	-4
Ultimate Elongation Change, %		-20	+3
(B36) Compression Set (Plied)			
22 hrs. @ 302°F (150°C)			
Percent of Original Deflection, Max	ASTM D395 Method B	25	6
(EA14) Fluid Resistance			
Water, 70 hrs @ 212°F (100°C)			
Volume Change, %	ASTM D471	±5	0