

COMPOUND DATA SHEET

Parker O-Ring Division, North America

MATERIAL REPORT

		LTR Report Nu	mber: Date:	95610 7/11/2013		ESC ENGINEERED SEAL PRODUCTS® 10% Employee-Owned
<u>Title:</u>	Evaluation	n of Parker Cor	mpound S04	55-70		
Elastomer Type:	Silicone (VMQ, PVMQ)					
Purpose:	To obtain typical test data.					
Specification:	ASTM D2000 M7GE705 A19 B37 EA14 E016 E036 F19 G11 Z1 (Specific Gravity) Z2 (Elongation %, minimum 110)					
<u>Color:</u>	Rust					
Recommended Ten	nperature	Range: -65°	°F to 450°F/	500°F		
<u>Recommended For:</u> Not Recommended For:		Animal, Vegetable oil, and grease, high molecular weight chlorinated aromatic hydrocarbons (including flame-resistant insulators, and coolant for transformers), moderate water resistance, diluted salt solutions, ozone, aging, and weather resistance. Superheated water/steam over 250°F, acids and alkalis, low molecular				
		weight chlorina fuels, aromatic silicone oils.	ated hydroca c hydrocarbo	arbons (trichloroethons (benzene, tolue	ıylene), hydroca ∍ne), low molec	arbon based ular weight
Additional Approva	<u>ls:</u>	N/A				

REPORT DATA

	Test	Spec	Test
Original Physical Properties	Method	Limits	<u>Results</u>
Hardness, Shore A, pts.	ASTM D2240	70 ±5	68
Tensile Strength, PSI	ASTM D412	725	888
(Z2) Ultimate Elongation, %	ASTM D412	110	118
(Z1) Specific Gravity	ASTM D297	report	1.28
(B37) Compression Set (Plied)			
<u>22 hrs. @ 347°F</u>			
Percent of Original Deflection, Max	ASTM D395 Method B	30	11
(A19) Heat Age			
<u>70 hrs. @ 437°F</u>			
Hardness Change, pts.	ASTM D573	+10	+4
Tensile Strength Change, %		-25	+3
Ultimate Elongation Change, %		-30	-3
(EA14) Fluid Resistance			
Water, 70 hrs @ 212°F			
Hardness Change, pts.	ASTM D471	± 5	-3
Volume Change, %		± 5	+1
(E016) Fluid Resistance			
<u>IRM 901, 70 hrs @ 302°F</u>			
Hardness Change, pts.	ASTM D471	-0 to -15	-5
Tensile Strength Change, %		-20	-5
Ultimate Elongation Change, %		-20	+5
Volume Change, %		0 to +15	+6
(E036) Fluid Resistance			
IRM 903, 70 hrs @ 302°F			
Hardness Change, pts.	ASTM D471	-40	-18
Volume Change, %		+60	+41
(G11) Tear Resistance			
<u>kN/m, min.</u>	ASTM D624	9	12
(F19) Low Temperature Resistance			
Nonbrillte after 3 min @ -67°F	ASTM D1329	pass/fail	Pass

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