



MATERIAL REPORT

DATE: 3/01

- TITLE:** Evaluation of Parker Compound E1549-70 (63447) to ASTM D2000 M3DA714 A26 B36 EA14 F19 G11 G21 Z1 Z2 Z3
- PURPOSE:** To verify Parker Compound E1549-70 meets all phases of the above specification.
- CONCLUSION:** Parker Compound E1549-70 meets or exceeds all phases of the above specification.

Recommended temperature limits: -70°F to 250 °F

Recommended For

Hot water and steam
Glycol based brake fluid
Many organic and inorganic acids
Cleaning agents, soda and potassium alkalis
Phosphate –ester based hydraulic fluids
Silicone oil and grease
Polar solvents
Ozone, Aging and weather resistance

Not Recommended For

Mineral oil products



REPORT DATA

	Compound E1549	M3DA 714 A26 EA14 F19 G11G21 Z1 Z2 Z3 Spec.
Originals		
Hardness, Durometer	70	70 +/- 5
Tensile Strength, Mpa	14.9	14 min
Modulus @ 100% Elongation, Mpa	2.6	2.0 min
Elongation, %	336	200 min
Specific Gravity	1.11	1.11 +/- 0.03
FDA compliant, but not for edible oils, or dairy products	Yes	Yes
BS 6920 (WRAS/WRc Approved) (Z1)	Yes	Yes
NSF 61 Certified	Yes	Yes
KTW Approved	Yes	Yes

Heat Aged 70 hrs @ 150 °C		
Change in Hardness, pts	3	+10 max
Change in Tensile Strength, %	+2	-20 max
Change in Elongation, %	-10	-20 max

Compression Set 22 hrs @ 150 C		
Compression Set, % (1/2" buttons)	14	25 max
Compression Set, % (Plied Slabs)	22	25 max

Aging in Distilled Water 70 hrs @ 100 C		
Change in Hardness, pts	-2	-5 to +5
Change in Tensile Strength, %	+2	-25 max
Change in Elongation, %	0	-25 max
Change in Volume, %	+1.74	+/- 5

Tear Strength		
Die 'B' (kN/m)	32	17 min
Die 'C' (kN/m)	37	17 min

Low Temperature Brittleness		
Non-Brittle after 3 min @ -55 C	Pass	Pass
TR-10 (C)	-42 C	-40 or lower