Compound Data Sheet
O-Ring Division United States

MATERIAL REPORT

Date: 09/25/2007

TITLE: General evaluation of Parker's Internally Lubed Ethylene Acrylate compound AE153-75 to ASTM D2000 M4EE710 EO16 EO36 F15.

PURPOSE: To provide a general physical and chemical attribute profile of this compound.

CONCLUSION: Parker compound AE153-75 meets all aspects of the ASTM specification with no exceptions.

Temperature: -40 to 325 (F)

Recommended For: Ozone, Oxidizing Media, Moderate Resistance to Mineral Oils

Not Recommended For: Ketones, Fuels and Brake Fluids

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REPORT DATA

Original Physical Properties	**Spec.**	**Platens**
Hardness, Shore A	75±5	77
Tensile Strength, min, MPa (psi)	10 (1450)	15 (2175)
Elongation at Break, min.	200	244
Specific Gravity	1.28± 0.02	1.27
Heat Age (ASTM D865)		
70 Hrs. @ 347° F		
Hardness Change, pts.	±15 Max	+7
Tensile Strength Change, max	±30 Max	+6
Elongation Change, max	-50 Max	-21
Immersion in ASTM No. 1 Oil (EO16)		
ASTM D 471, 22 Hrs. @ 150°C		
Hardness Change, pts.	-10 to +5 Max	-1
Tensile Strength Change, max	-25 Max	+1
Elongation Change, max	-35 Max	+2
Volume Change	±10	+1
Immersion in IRM 903Oil (EO36)		
ASTM D 471, 70 Hrs. @ 150°C		
Tensile Strength Change, max	-50 Max	-10
Elongation Change, max	-50 Max	-13
Volume Change	+60 Max	+36
Compression Set		
ASTM D 395, Method B		
22 Hrs. @ 302°F (Plied)		
% Deflection, Max	75 Max	23%
Fluid Immersion		
Dextron VI, 70 Hrs. @ 150 °C		
Tensile Strength Change, %	-25	+8
Elongation Change, % Max	-30	-20
Low Temperature Brittleness		
Nonbrittle after 3 min, @ -25°C	Pass	Pass