



MATERIAL REPORT

Date: 10/05/2006

TITLE: General evaluation of Parker's Internally Lubed, Chloramine Resistant Ethylene Propylene compound EJ274-70 to ASTM D2000 M4CA710 A25 B35 EA14 Z1.

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

CONCLUSION: Parker compound EJ274-70 meets all aspects of the ASTM specification with no exceptions.

Temperature: -70 to 250 (F)

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REPORT DATA

<u>ORIGINAL PHYSICAL PROPERTIES</u>	<u>SPEC.</u>	<u>PLATENS</u>
Hardness, Shore A	70±5	71
Tensile Strength, min, MPa (psi)	10 (1450)	14.7 (2131)
Elongation at Break, min.	200	343
HEAT AGED (A25)		
<u>70 Hrs. @ 125° C</u>		
Hardness Change, pts.	±10 Max	No Change
Tensile Strength Change, max	-20 Max	-2
Elongation Change, max	-40 Max	+4
<u>Compression Set (B35)</u>		
<u>ASTM D 395, Method B</u>		
<u>22 Hrs. @ 125°C (Plied)</u>		
% Set Max	70Max	22
<u>Fluid Immersion (EA14)</u>		
<u>70 Hrs. @ 100 °C, Distilled Water</u>		
Volume Change, %	±5	+3
<u>Chloramine Immersion (Z1)</u>		
<u>50 ppm Total Residual Chlorine @70°C</u>		
<u>Sample Size: 25 x 50 x 1.02 mm</u>		
Volume Change, 70 HRS	Record	+3
Volume Change, 500 HRS	Record	+9
Volume Change, 1000 HRS	Record	+20
Volume Change, 1344 HRS	Record	+34

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