



# MATERIAL REPORT

Date: 03/21/2006

**TITLE:** General evaluation of Parker's Chloramine Resistant Ethylene Propylene compound EJ273-70 to ASTM D2000 M4CA710 A25 B35 EA14.

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

**CONCLUSION:** Parker compound EJ273-70 meets all aspects of the ASTM specification with no exceptions.

**Temperature:** -70 to 250 (F)

## REPORT DATA

**ORIGINAL PHYSICAL PROPERTIES**

|                                  | <b><u>SPEC.</u></b> | <b><u>PLATENS</u></b> |
|----------------------------------|---------------------|-----------------------|
| Hardness, Shore A                | 70±5                | 70                    |
| Tensile Strength, min, MPa (PSI) | 10 (1450)           | 14.6 (2117)           |
| Elongation at Break, min.        | 200                 | 249                   |

**HEAT AGED (A25)****70 Hrs. @ 125° C**

|                              |         |     |
|------------------------------|---------|-----|
| Hardness Change, pts.        | ±10 Max | +3  |
| Tensile Strength Change, max | -20 Max | +9  |
| Elongation Change, max       | -40 Max | +12 |

**Compression Set (B35)****ASTM D 395, Method B****22 Hrs. @ 125°F**

|            |        |     |
|------------|--------|-----|
| % Set, Max | 70 Max | 15% |
|------------|--------|-----|

**Fluid Resistance (EA14)****70 Hrs. @ 100° C, Distilled Water**

|                  |    |    |
|------------------|----|----|
| Volume Change, % | ±5 | +3 |
|------------------|----|----|

**Fluid Resistance****1.00 x 2.00 x 0.040 in. Sample****70 HRS @ 50 ppm Total Residual Chlorine @ 70° C**

|                  |        |    |
|------------------|--------|----|
| Volume Change, % | Record | +1 |
|------------------|--------|----|

**500 HRS @ 50 ppm Total Residual Chlorine @ 70° C**

|                  |        |    |
|------------------|--------|----|
| Volume Change, % | Record | +6 |
|------------------|--------|----|

**1000 HRS @ 50 ppm Total Residual Chlorine @ 70° C**

|                  |        |     |
|------------------|--------|-----|
| Volume Change, % | Record | +16 |
|------------------|--------|-----|

**1344 HRS @ 50 ppm Total Residual Chlorine @ 70° C**

|                  |        |     |
|------------------|--------|-----|
| Volume Change, % | Record | +33 |
|------------------|--------|-----|

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