



# MATERIAL REPORT



CONTACT US

DATE: July 2001

- TITLE:** General evaluation of Parker Compound FF354-65.
- PURPOSE:** To obtain general data for Parker Compound FF354-65
- CONCLUSION:** Parker Compound FF354-65 is a low closure force, white, high temperature perfluorinated elastomer.

Recommended temperature limits: 5 to 608 °F

### Recommended For

Aliphatic and aromatic hydrocarbons  
Chlorinated hydrocarbons  
Polar solvents (acetone, methylethylketone, dioxane)  
Inorganic and organic acids  
Water and steam  
High vacuum with minimal loss in weight  
Petroleum oil  
Wet/dry chlorine

### Not Recommended For

Fluorinated refrigerants (R11, 12, 13, 113, 114)  
Uranium hexafluoride  
Molten Metals  
Gaseous and alkali metals



## REPORT DATA

### FF354-65 2-214 O-Rings

#### Original Physical Properties

|                                |     |
|--------------------------------|-----|
| Hardness, Shore A, pts.        | 65  |
| Tensile Strength, MPa          | 8.0 |
| Elongation, %, min.            | 277 |
| Modulus @ 100% Elongation, MPa | 1.8 |

#### Compression Set, 70 Hrs @ 200°C, ASTM D395 Method B

|                  |    |
|------------------|----|
| Permanent Set, % | 28 |
|------------------|----|

#### Compression Set, 70 Hrs @ 260°C, ASTM D395 Method B

|                  |    |
|------------------|----|
| Permanent Set, % | 41 |
|------------------|----|

#### Low Temperature Retraction, ASTM D1329

|                    |    |
|--------------------|----|
| TR-10 in degrees C | -1 |
|--------------------|----|

#### Volume Change, 70 Hrs @ RT, ASTM D471

|  |     |
|--|-----|
| Acetone, % Volume Change                       | 0.2 |
| Methyl Ethyl Ketone, % Volume Change           | 0.2 |
| Methanol, % Volume Change                      | 0.1 |
| Benzene, % Volume Change                       | 0.2 |
| Toluene, % Volume Change                       | 0.1 |
| Dichloromethane, % Volume Change               | 0.3 |
| Chloroform, % Volume Change                    | 0.5 |
| Ethyl Acetate, % Volume Change                 | 0.3 |
| MTBE, % Volume Change                          | 0.1 |
| Glacial Acetic Acid, % Volume Change           | 0.1 |
| Conc. Phosphoric Acid, % Volume Change         | 0.1 |
| 50/50 by Volume, MEK/Methanol, % Volume Change | 0.7 |
| Tetrahydrofuran (THF), % Volume Change         | 0.4 |
| Styrene Monomer, % Volume Change               | 0.3 |
| Methyl Methacrylate Monomer, % Volume Change   | 0.2 |