



# MATERIAL REPORT

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

Permanent Set, %	41
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#### Low Temperature Retraction, ASTM D1329

TR-10 in degrees C	-1
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#### 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