



Seals

# P4617D65

HARD MOLYTHANE

## TYPICAL PHYSICAL PROPERTIES

|                                    |                 |
|------------------------------------|-----------------|
| HARDNESS, SHORE D                  | 65              |
| MODULUS @ 100% ELONGATION, psi     | 3428            |
| MODULUS @ 300% ELONGATION, psi     | 4546            |
| ULTIMATE TENSILE STRENGTH, psi     | 5652            |
| ULTIMATE ELONGATION, %             | 503             |
| SPECIFIC GRAVITY                   | 1.22            |
| COMPRESSION SET 22 HRS @ 158° F, % | 44.3            |
| TEMPERATURE RANGE                  | -65° TO +250° F |

NOTE: THESE ARE TYPICAL VALUES AND SHOULD  
NOT BE USED AS SPECIFICATION LIMITS

## **Compound P4617D65**

### **Test Results**

| Media                  | Hardness<br>Change, Pnts. | 100% Modulus<br>Change, % | Ultimate Tensile<br>Change, % | Elongation<br>Change, % | Weight<br>Change, % | Volume<br>Change, % |
|------------------------|---------------------------|---------------------------|-------------------------------|-------------------------|---------------------|---------------------|
| <b>Original</b>        | 65                        | 3460                      | 5803                          | 540                     |                     |                     |
| <b>Fuel A</b>          | 0                         | -2                        | +3                            | -6                      | 0                   | 0                   |
| Final Value            | 65                        | 3405                      | 5971                          | 509                     |                     |                     |
| <b>Fuel B</b>          | 0                         | -17                       | +11                           | +2                      | +3                  | +4                  |
| Final Value            | 65                        | 2863                      | 6459                          | 549                     |                     |                     |
| <b>Fuel C</b>          | -7                        | -30                       | +15                           | +2                      | +7                  | +10                 |
| Final Value            | 58                        | 2423                      | 6650                          | 552                     |                     |                     |
| <b>Methanol</b>        | -18                       | -55                       | -14                           | -2                      | +8                  | +12                 |
| Final Value            | 47                        | 1565                      | 5016                          | 529                     |                     |                     |
| <b>JA Jet Fuel</b>     | +1                        | -1                        | +11                           | +1                      | +1                  | +1                  |
| Final Value            | 66                        | 3430                      | 6424                          | 545                     |                     |                     |
| <b>IRM #1 Oil</b>      | +1                        | +2                        | 0                             | -7                      | 0                   | 0                   |
| Final Value            | 66                        | 3536                      | 5819                          | 500                     |                     |                     |
| <b>IRM #3 Oil</b>      | -1                        | +1                        | -1                            | -4                      | +3                  | +3                  |
| Final Value            | 64                        | 4634                      | 5754                          | 519                     |                     |                     |
| <b>MIL-H-5606</b>      | -2                        | -25                       | -27                           | -6                      | +3                  | +4                  |
| Final Value            | 63                        | 3436                      | 4214                          | 508                     |                     |                     |
| <b>Jet Oil II</b>      | -1                        | -7                        | +3                            | -5                      | +4                  | +5                  |
| Final Value            | 64                        | 4290                      | 5969                          | 512                     |                     |                     |
| <b>Stauffer 7700</b>   | -1                        | -2                        | +7                            | -4                      | +4                  | +5                  |
| Final Value            | 64                        | 4496                      | 6193                          | 521                     |                     |                     |
| <b>Rando HD32</b>      | 0                         | +2                        | -1                            | -1                      | 0                   | 0                   |
| Final Value            | 65                        | 4685                      | 5764                          | 537                     |                     |                     |
| <b>Rapeseed Oil</b>    | 0                         | -6                        | -7                            | +2                      | 0                   | 0                   |
| Final Value            | 65                        | 4354                      | 5384                          | 552                     |                     |                     |
| <b>Distilled Water</b> | -4                        | -27                       | -12                           | 0                       | +1                  | +2                  |
| Final Value            | 61                        | 3360                      | 5086                          | 540                     |                     |                     |
| <b>Oven Air Age</b>    | +2                        | +4                        | -2                            | -9                      | 0                   | 0                   |
| Final Value            | 67                        | 4773                      | 5711                          | 492                     |                     |                     |
| <b>Ethylene Glycol</b> | -4                        | -34                       | -22                           | -13                     | +5                  | +5                  |
| Final Value            | 61                        | 3062                      | 4523                          | 470                     |                     |                     |

LL-1640

**70 Hrs @ Room Temperature**

**168 Hrs @ 100° C**

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