

## Oil Resistant Silicone Rubber

There are specially designed silicone rubber for the better oil resistance Specially to the ASTM #1 oil than other general silicone rubber grades.

### FEATURES

- Specially designed for Oil Resistance
- Excellent all properties
- Excellent for compression molding and extrusion

### APPLICATIONS

- O-Ring, Automotive Rubber Parts, Seals

### PROPERTIES

Catalyst : HC-8 / 1.8phr (171°C×10min / 200°C×4hrs)

| Typical Properties   |                             | HR-707/60U | HR-707/70U | HR-707/80 |
|--|-----------------------------|------------|------------|-----------|
| Color  | ASTM E 1716                 | NATURAL    |            |           |
| William's plasticity   | ASTM D 926                  | 250        | 270        | 300       |
| Specific Gravity   | ASTM D 792                  | 1.23       | 1.32       | 1.4       |
| Hardness   | ASTM D 2240                 | 60         | 71         | 81        |
| Tensile Strength (MPa)   | ASTM D 412                  | 6.5        | 7.5        | 7.0       |
| Elongation (%)   | ASTM D 412                  | 250        | 200        | 150       |
| Tear Strength (kgf/cm)   | ASTM D 624 "B"              | 15         | 15         | 15        |
|  | ASTM D 624 "C"              | 28         | 24         | 23        |
| Compression set (%) <sup>*1</sup>  | ASTM D 395                  | 28         | 30         | 33        |
| <b>PROPERTIES CHANGE AFTER OIL IMMERSION TEST (ASTM D 471) ASTM #1.OIL</b> |                             |            |            |           |
| 150°C×72hrs  | Hardness change             | -3         | -2         | -2        |
|  | Tensile Strength change (%) | -10        | -9         | -10       |
|  | Elongation change (%)       | -12        | -10        | -10       |
|  | Volume change (%)           | 10         | 8          | 9         |

\*1. Compression Set : 177°C×22hrs