Mykin Inc
RS00170 SILICONE COMPOUND

GENERAL PROPERTIES
Mykin Inc’s RQ7008G-4601 Silicone compound offers a broad temperature range, from -80º F to +400º F, and excellent dry heat resistance. Silicone has the best low temperature flexibility of all elastomers and can be used in static applications down to -150F. Silicones also have good resistance to ozone and weather. It also proves to be a good insulator. It is not recommended for dynamic conditions due to its low tensile and tear strength.

ASTM Designation | ORIGINAL PROPERTIES | ASTM D2000 SPECIFICATION
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Durometer, Shore A | 70 +/- 5 | Durometer Change, Points
Tensile, psi (MPa), Minimum | 870 (6) | Tensile Strength Change, %
Elongation, % Minimum | 150 | Elongation Change, % Maximum
Specific Gravity | -- |

A19 | HEAT AGE, 70 HRS @ 225 C | Durometer Change, Points -40
Tensile Strength Change, % | -25 | Elongation Change, % Maximum -30

B37 | COMPRESSION SET, 22 HRS @ 175 C | Original Deflection, % Maximum 25

EO16 | ASTM #1 OIL, 70 HRS @ 150 C | Durometer Change, Points 0/-15
Tensile Change, % Maximum | -20 | Elongation Change, % Maximum -20
Volume Change, % | 0/+10 |

EO36 | ASTM #3 OIL, 70 HRS @ 150 C | Durometer Change, points -30
Volume Change, % Maximum | +60 |

EA14 | WATER RESISTANCE 70 HRS @ 100 C | Durometer Change, Points +/-5
Volume Change, % | +/-5 |

F19 | LOW TEMPERATURE BRITTLENESS | ASTM D2137, Method A
3 Minutes @ -55 C | Non-Brittle

G11 | Tear Resistance, Die B, ppi (kN/m) | 51(9)

SPECIFICATIONS MET
- ASTM D2000-01 Grade M5GE706 A19 B37 EO16 EO36 EA14 F19 G11
- ZZ-R-765B Class 2a & 2b, Grade 70 and FDA CFR 177.2600
- AMS 3304 (Size per AS3582 which replaced MS 9068) Specification