

## Tufel\* II 94305

### Description

Tufel II 94305 Rubber Compounds 94205 and 94305 are 20 and 30 durometer low volatile, fast-cure, addition cured silicone elastomers for molding. They may be used by themselves or blended to intermediate durometers. Applications include fabricated molding that require short cycle time, deep section cures, and parts with low extractable requirements.

### Key Features and Typical Benefits

- LV Bases Minimize Post Cure Times
- Totally Peroxide-Free Cure System
- Significant Reduction in Molding Cycle Systems
- Lower Molding Temperature Range (150-166°C) (300-330°F)
- Superior Mixed Shelf Life
- Tight Surface Cure
- Non-blooming
- Translucency

### Typical Physical Properties

TYPICAL CHARACTERISTICS OF UNCURED TUFEL II SILICONE RUBBER - 94005 SERIES

| PROPERTIES                              | 94205       | 94305       |
|---|-------------|-------------|
| Specific Gravity                        | 1.07        | 1.10        |
| Appearance                              | Translucent | Translucent |
| Polymer Classification<br>(ASTM D-1418) | VMQ         | VMQ         |

TYPICAL RHEOLOGICAL PROFILE - MONSANTO RHEOMETOR MODEL 100 WITH 3° ARC @ 177°C (350°F)

|                         |           |           |
|-------------------------|-----------|-----------|
| Minimum Viscosity       | 3.8-6.0   | 4-7       |
| T1, Minutes             | 0.30-0.45 | 0.12-0.70 |
| 7 Min. Torque (lb./in.) | 19-29     | 21-34     |

#### TYPICAL PHYSICAL PROPERTIES OF TUFEL II SILICONE RUBBER - 94005 SERIES

| ASTM METHOD | PRESS CURE - 10 MINUTES @ 177°C (350°F) | 94205 | 94305 |
|-------------|---|-------|-------|
| D-2240      | Hardness, Durometer A                   | 22    | 28    |
| D-412       | Tensile Strength, psi                   | 1200  | 1350  |
|             | MPa                                     | 8.3   | 9.3   |
| D-412       | Elongation, %                           | 1000  | 1050  |
| D-624       | Tear Resistance, Die B, pli             | 125   | 170   |
|             | KN/M                                    | 22    | 30    |
| D-412       | Tensile Modulus @ 100% psi              | 63    | 87    |
|             | MPa                                     | 0.4   | 0.6   |

#### Regulatory Compliance

- A representative sample of an analogous product to LIM 6040 met the requirements of USP Class VI.
- Compositionally compliant with 21 CFR 177.2600 – Rubber articles intended for repeated use<sup>(1)</sup>

(1) It is the responsibility of the user to determine that the final product complies with the extractive limitations and other requirements of 21 CFR 177.2600, under their specific manufacturing procedures

#### Patent Status

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