

# Flexane® 94 Liquid

Polyurethane

Devcon

Message:

A low-viscosity, castable, non-shrinking urethane compound.

Intended Use:  
Reproduce low- to medium-volume or discontinued rubber parts; form flexible molds and nonscratching holding fixtures/linings; encapsulate wire and electronics subject to impact, vibration, expansion, and contraction.

Product features:  
Room temperature curing urethane/no heat required  
Mixes and pours easily  
5-hour demolding time

| General Information           |                                    |                    |             |
|-------------------------------|------------------------------------|--------------------|-------------|
| Features                      | Low viscosity                      |                    |             |
|                               | Good flexibility                   |                    |             |
|                               | Low shrinkage                      |                    |             |
| Uses                          | Electrical/Electronic Applications |                    |             |
|                               | Mold/Mold/Tool                     |                    |             |
| Appearance                    | Black                              |                    |             |
| Forms                         | Liquid                             |                    |             |
| Processing Method             | Enclosure                          |                    |             |
|                               | Casting                            |                    |             |
| Physical                      | Nominal Value                      | Unit               | Test Method |
| Specific Volume               | 0.957                              | cm <sup>3</sup> /g |             |
| Solid content-by Volume       | 100                                | %                  |             |
| Abrasion Loss                 | 330                                | mg/1000 cycles     |             |
| Maximum Operating Temperature |                                    |                    |             |
| Dry                           | 82                                 | °C                 |             |
| Wet                           | 49                                 | °C                 |             |
| Molding Shrinkage - Flow      | 0.14                               | %                  | ASTM D2566  |
| Hardness                      | Nominal Value                      | Unit               | Test Method |
| Durometer Hardness (Shore A)  | 97                                 |                    | ASTM D2240  |
| Elastomers                    | Nominal Value                      | Unit               | Test Method |
| Tensile Strength              | 19.3                               | MPa                | ASTM D412   |
| Tensile Elongation (Break)    | 500                                | %                  | ASTM D412   |
| Tear Strength                 | 72.7                               | kN/m               | ASTM D624   |
| Electrical                    | Nominal Value                      | Unit               | Test Method |
| Dielectric Strength           | 14                                 | kV/mm              | ASTM D149   |

| Thermoset               | Nominal Value              | Unit |
|-------------------------|----------------------------|------|
| Thermoset Components    |                            |      |
| Resin                   | Mixing ratio by weight: 69 |      |
| Hardening method        | Mixing ratio by weight: 31 |      |
| Pot Life (24°C)         | 10                         | min  |
| Thermoset Mix Viscosity | 6000                       | cP   |
| Demold Time             | 300                        | min  |
| Additional Information  |                            |      |
| Cured 7 days @ 75°F     |                            |      |
| Uncured Properties      | Nominal Value              | Unit |
| Curing Time             | 16                         | hr   |

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