

Ecoflex® Supersoft 00-10

Silicone

Smooth-On, Inc

Message:

Ecoflex® rubbers are platinum-catalyzed silicones that are versatile and easy to use. Ecoflex® rubbers are mixed 1A:1B by weight or volume and cured at room temperature with negligible shrinkage. Rubber also cures without a "tacky" surface. Low viscosity ensures easy mixing and de-airing, or you can choose to mix and dispense using our convenient dispensing cartridges.

Cured rubber is very soft, very strong and very "stretchy", stretching many times its original size without tearing and will rebound to its original form without distortion. Ecoflex® rubbers are water white translucent and can be color pigmented with Silc Pig® pigments for creating a variety of color effects. You can also add Smooth-On's Silicone Thinner® to further lower the viscosity. THI-VEX® silicone thickener can be added by weight to Ecoflex® 5 or Ecoflex® 00-10 for brushable applications. Note: THI-VEX® is NOT compatible with Ecoflex® 00-30 or Ecoflex® 00-50.

Soft, Softer, Softest . . . Ecoflex® rubbers are based on Smooth-On's Dragon Skin® technology and are currently available in four different hardness': Shore A-5, Shore 00-10, 00-30 and 00-50. They are suitable for a variety of applications including making prosthetic appliances, cushioning for orthotics and special effects applications (especially in animatronics where repetitive motion is required).

Ecoflex® 5 has a pot life of 1 minute and a demold time of 5 minutes - Available only in dispensing cartridges.

| General Information | | | |
|-------------------------------|---------------------|--------------------|-------------|
| Features | Good Strength | | |
| | Good Stretchability | | |
| | Good Tear Strength | | |
| | Low Shrinkage | | |
| | Low Viscosity | | |
| | Soft | | |
| Uses | Dental Applications | | |
| | Prosthetics | | |
| Appearance | Translucent | | |
| Processing Method | Casting | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.04 | g/cm ³ | ASTM D1475 |
| Specific Volume | 0.961 | cm ³ /g | ASTM D1475 |
| Mixing Ratio | 1A:1B by volume | | |
| Operating Temperature | -54 to 232 | °C | |
| Molding Shrinkage - Flow | < 0.10 | % | ASTM D2566 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore OO) | 10 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 0.0552 | MPa | ASTM D412 |
| Tensile Strength (Break) | 0.827 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 800 | % | ASTM D412 |
| Tear Strength ¹ | 3.85 | kN/m | ASTM D624 |
| Electrical | Nominal Value | Unit | Test Method |


| | | | |
|-------------------------|---------------|-------|-------------|
| Dielectric Strength | > 14 | kV/mm | ASTM D149 |
| Thermoset | Nominal Value | Unit | Test Method |
| Pot Life | 30 | min | ASTM D2471 |
| Thermoset Mix Viscosity | 14000 | cP | ASTM D2393 |
| Demold Time | 240 | min | |
| NOTE | | | |
| 1. | Die B | | |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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