

# BioSpan® F SPU

Polyurethane

DSM Biomedical Inc.

## Message:

BioSpan® F SPU is a Polyurethane product. It can be processed by casting, dip coating, hand lay-up, or spraying and is available in North America.

Applications of BioSpan® F SPU include medical/healthcare and food contact applications.

Characteristics include:

Biocompatible

Fatigue Resistant

Good Flexibility

High Strength

Hydrolytically Stable

| General Information |   |
|---------------------|---|
| Features            | Biocompatible<br>Fatigue Resistant<br>Good Flexibility<br>High Elongation<br>High Strength<br>Hydrolytically Stable<br>Soft |
| Uses                | Diaphragms<br>Medical/Healthcare Applications   |
| Agency Ratings      | DMF Unspecified Rating<br>FDA Unspecified Rating  |
| Appearance          | Translucent   |
| Forms               | Liquid  |
| Processing Method   | Casting<br>Dip Coating<br>Hand Lay-up<br>Spraying   |

| Physical                      | Nominal Value | Unit | Test Method |
|-------------------------------|---------------|------|-------------|
| Water Absorption (Saturation) | 1.5           | %    | ASTM D570   |
| Average Molecular Weight      | 180000        |      | ASTM D3593  |
| Initial Modulus               | 20.0          | MPa  | ASTM D1708  |
| Contact Angle                 | 112           | °    |             |
| Solution Concentration        | 24.0          | wt%  |             |
| Hardness                      | Nominal Value | Unit | Test Method |

|                              |                      |             |                    |
|------------------------------|----------------------|-------------|--------------------|
| Durometer Hardness (Shore A) | 70                   |             | ASTM D2240         |
| <b>Mechanical</b>            | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Tensile Stress               | 42.0                 | MPa         | ASTM D1708         |
| Tensile Elongation (Break)   | 960                  | %           | ASTM D638          |
| Coefficient of Friction      | 7.4                  |             | ASTM D1894         |
| <b>Thermal</b>               | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Glass Transition Temperature | -56.7                | °C          | ASTM D3418         |

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