

# BioSpan® SPU

Polyurethane  
DSM Biomedical Inc.

Message:

BioSpan® 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® SPU include medical/healthcare and food contact applications. Characteristics include:

- Biocompatible
- Fatigue Resistant
- Good Flexibility
- High Strength
- Hydrolytically Stable

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

Physical	Nominal Value	Unit	Test Method
Water Absorption (Saturation)	1.5	%	ASTM D570
Average Molecular Weight	180000		ASTM D3593
Initial Modulus	14.5	MPa	ASTM D1708
Contact Angle	76.0	°	
Solution Concentration	24.0	wt%	
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore A)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	41.4	MPa	ASTM D1708
Tensile Elongation (Break)	850	%	ASTM D638
Coefficient of Friction	0.92		ASTM D1894
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-53.9	°C	ASTM D3418

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