



Product Specification Sheet BioSpan® SPU– Segmented Polyurethane

This document describes the specifications for BioSpan® SPU manufactured by the Biomedical division of dsm-firmenich, Exton, PA (USA). Biomedical's BioSpan® SPU is a solution based medical-grade material known for its excellent mechanical properties and flex life. It is ideal for demanding medical applications, is well suited for dynamic loading conditions and can be surface tailored with SME® technology.

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BioSpan® 2F SPU Physical Properties

Property	Test Method	Unit	Minimum	Maximum
Viscosity	ASTM 2196	cPs	2100	14,000
Solid Content by Weight	N/A	%	18	22
Tensile Strength at Break	ASTM D1708	psi	5,000	-
Ultimate Elongation at Break	ASTM D1708	%	800	-
Molecular Weight	ASTM 3536 ASTM 5296	Da	124,000	300,000
Polydispersity	ASTM 3536 ASTM 5296	N/A	-	2.5
Appearance	Visual	N/A	Clear, colorless to hazy yellowish	



BioSpan® S SPU Physical Properties

Property	Test Method	Unit	Minimum	Maximum
Solid Content by Weight	N/A	%	18	23
Initial Modulus	ASTM D1708	psi	1240	2360
Tensile Strength at Break	ASTM D1708	psi	5,500	-
Ultimate Elongation at Break	ASTM D1708	%	700	-
Gardner Color	PRO-01832	N/A	-	4
Visual	PRO-01808	N/A	Clear, colorless to hazy yellowish	

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