

# SkinFlex III Castable

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

SkinFlex III can be used for a great variety of applications. The common uses for this product include the creation of soft yet, flexible and durable materials for animated characters, costumes, medical training devices, and various parts. But the true application of this material is only limited by your imagination. The SkinFlex III product offers the ability to stretch and recover while maintaining high tear strength even in the soft to very soft hardness range. This system provides further control by allowing you to select the desired levels of stretch, recovery and hardness by adding a third component (Part "C") in different percentage levels.

General Information			
Features	Good Stretchability		
	Good Tear Strength		
	Soft		
Uses	Modeling Material		
	Molds/Dies/Tools		
Appearance	Clear/Transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Part A	1.057	g/cm <sup>3</sup>	
Part B	0.918	g/cm <sup>3</sup>	
Part C	0.968	g/cm <sup>3</sup>	
Demold Time (25°C)	16.0 to 24.0	hr	
Gel Time <sup>1</sup>	30.0	min	
Work Time (25°C) <sup>2</sup>	15.0	min	
Brookfield Viscosity			
25°C <sup>3</sup>	1.20	Pa · s	
Part A : 25°C	3.15	Pa · s	
Part B : 25°C	0.585	Pa · s	
Part C : 25°C	0.0800	Pa · s	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A <sup>4</sup>	5		
Shore A <sup>5</sup>	25		
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>6</sup> (Yield)	3.52	MPa	ASTM D412
Tensile Elongation <sup>7</sup> (Break)	930	%	ASTM D412

Tear Strength <sup>8</sup>	6.30	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 50		
Part B	Mix Ratio by Weight: 100		
Shelf Life	26	wk	
NOTE			
1.	A+B (no "C")		
2.	A+B (no "C")		
3.	Mixed A/B		
4.	A+B+70% C		
5.	A+B		
6.	A+B		
7.	A+B		
8.	A+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

