

F-115 REV 1 A/B

SKINFLEX 15

15 SHORE A POLYURETHANE ELASTOMER



BJB's **F-115 REV 1 'SkinFlex 15'** is a soft (15 Shore A), stretchy, 1:1 mix ratio polyurethane elastomer designed for a variety of applications. The addition of SC-22 Softener allows the user to lower hardness and increase elongation to produce extremely soft parts. F-115 REV 1 'SkinFlex 15' can be cartridge-dispensed with our CPE handheld dispense equipment. For longer work times consider our M Series of elastomers.

- RoHS/REACH Compliant
- Easy to Pigment
- High Tensile & Tear Strength
- Special Effects & Props
- Medical Training Models
- Mercury/Phthalate Free

PHYSICAL PROPERTIES	TEST METHOD	7 DAY AMBIENT CURE	ELEVATED TEMP CURE*
Hardness, Shore A	ASTM D2240-04e1	15 ± 5	15 ± 5
Density (g/cc)	ASTM D792-00	1.017	1.017
Cubic Inches per Pound	N/A	27.62	27.62
Color/Appearance	Visual	Translucent Pale Amber	Translucent Pale Amber
Tensile Strength (psi)	ASTM D412-98a(2002)e1	TBD	650
Tensile Modulus (psi)	ASTM D412-98a(2002)e1	TBD	100
Elongation (%)	ASTM D412-98a(2002)e1	TBD	1,200
Tear Strength (pli)	ASTM D624-00e1	TBD	70
Shrinkage (in/in) linear	ASTM D2566 @ 1" depth	TBD	0.001 [†]
Dielectric Constant, 1 MHz	ASTM D150-87	5.334	5.334
Dissipation Factor, 1 MHz	ASTM D150-87	0.0452	0.0452

*Note: Reported physical properties are based on test specimens cured 1-3 hours at room temperature then 16 hours at 160°F (71°C).

[†]Shrink test specimens are cured for 24 hours at room temperature and then 16 hours at 160°F (71°C).

HANDLING PROPERTIES	Part A	Part B
Mix Ratio by weight	100	100
Mix Ratio by volume (cartridge dispense friendly)	100	99
Specific Gravity @ 77°F (25°C)	0.999	1.01
Color	Pale Yellow	Pale Amber
Viscosity (cps) @ 77°F (25°C) Brookfield	1,150	1,100
Mixed Viscosity (cps) @ 77°F (25°C) Brookfield	1,200	
Work Time, 100g mass @ 77°F (25°C)	9 – 10 minutes	
Gel Time	16 – 17 minutes	
Demold Time @ 77°F (25°C)	3 – 5 hours	

Properties above are typical and not for specifications.

CURE SCHEDULE/HEAT CURING:

Most of the physical properties can be achieved in 5-7 days at 77°F (25°C). You may use your own post-cure schedule but the physical properties may vary from BJB's cure schedule of 1-3 hours at 77°F (25°C) followed by 16 hours at 160°F (71°C). Do not exceed curing temperature of 200°F (93°C). **The cure may be inhibited if cast against a Tin Catalyzed Silicone RTV.**

ACCESSORIES:

BJB offers silicone RTV mold making materials along with a wide range of accessory items. These include de-airing agents, pigments, mold releases, and Jiffy® Mixers. Visit BJB's website at www.bjbenterprises.com or consult a BJB representative for more information.

COLOR VARIATIONS:

The color of the base material may vary slightly from batch to batch due to raw ingredients. Color variations will not affect the cured physical properties. Exposing the material to various conditions such as heat and UV light will alter the color of the cured system. Color stability is not guaranteed. This product can be pigmented, but you may see more color shift when using lighter pigments.

UV RESISTANCE:

This product is not classified as UV resistant. BJB offers an additive called UV-100, a UV inhibitor and anti-oxidant blend that will help slow down the effects of UV degradation and color change. The level of effectiveness varies from product to product.

STORAGE:

Store at ambient temperatures, 65-80°F (18-27°C). Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at recommended temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING	Part A	Part B	Cubic Inches per Kit
Quart Kits	2 lbs.	2 lbs.	111
Gallon Kits	8 lbs.	8 lbs.	442
5-Gallon Kits	40 lbs.	40 lbs.	2,210
55-Gallon Drum Kits	440 lbs.	440 lbs.	24,306

SAFETY PRECAUTIONS:

Use in a well-ventilated area. Avoid contact with skin using protective gloves and protective clothing. Repeat or prolonged contact on the skin may cause an allergic reaction. Eye protection is extremely important. Always use approved safety glasses or goggles when handling this product.

IF CONTACT OCCURS:

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. It is *not* recommended to remove resin from skin with solvents. Solvents only increase contact and dry skin. Seek qualified medical attention if allergic reactions occur.

Eyes: Immediately flush with water for at least 15 minutes. Call a physician.

Ingestion: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

Refer to the Material Safety Data Sheet before using this product.



Handling Guide



F-115 REV 1 Part A SDS



F-115 REV 1 Part B SDS