

FP-40 REV 1 A/B

40 SHORE A POLYURETHANE ELASTOMER



BJB’s “FP” (Fast Production) Series of products range from a 40 to 90 Shore A. You’ll find their 4 to 5 minute work time can easily be “demolded, tack free and tough” in under an hour. The 1:2 ratio and low viscosity makes these translucent materials easy to mix, pour and pigment. FP-40 REV 1 is ideal for hand casting or dispensed with our CPE equipment.

- RoHS/REACH Compliant
- Demold in under an hour
- Translucent and easy to pigment
- 4-5 minute work time
- Low viscosity and easy to mix
- Simple ratio, ideal for dispense cartridges

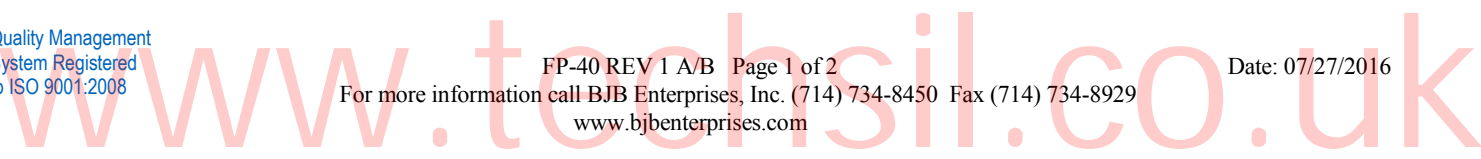
PHYSICAL PROPERTIES	TEST METHOD	7 DAY AMBIENT CURE	ELEVATED TEMPERATURE CURE*
Hardness, Shore A	ASTM D2240-04e1	40 ± 5	40 ± 5
Density (g/cc)	ASTM D792-00	1.05	1.05
Cubic Inches per Pound	N/A	26.79	26.79
Color/Appearance	Visual	Translucent Amber	Translucent Amber
Tensile Strength (psi)	ASTM D412-98a(2002)e1	TBD	650
Tensile Modulus (psi)	ASTM D412-98a(2002)e1	TBD	185
Elongation (%)	ASTM D412-98a(2002)e1	TBD	450
Tear Strength (pli)	ASTM D624-00e1	TBD	60
Shrinkage (in/in) linear	ASTM D2566 @ 1” depth	0.0010 [†]	TBD
Dielectric Constant, 1 MHz	ASTM D150-87	5.386	5.386
Dissipation Factor, 1 MHz	ASTM D150-87	0.0504	0.0504

***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	50	100
Mix Ratio by volume	49	100
Specific Gravity @ 77°F (25°C)	1.047	1.030
Color	Pale Yellow	Amber
Viscosity (cps) @ 77°F (25°C) Brookfield	340	1,080
Mixed Viscosity (cps) @ 77°F (25°C) Brookfield	1,100	
Work Time, 100g mass @ 77°F (25°C)	4 – 4.5 minutes	
Gel Time	6 – 6.5 minutes	
Demold Time @ 77°F (25°C)	50 – 90 minutes	

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).

NOTE:

The cure may be inhibited if cast against a relatively new tin catalyzed (condensation cure) 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	1 lb.	2 lbs.	80
Gallon Kits	4 lbs.	8 lbs.	322
5-Gallon Kits	20 lbs.	40 lbs.	1,607
55-Gallon Drum Kits	220 lbs.	440 lbs.	17,681

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



FP-40 REV 1 Part A SDS



FP-40 REV 1 Part B SDS

