

## Product Name

**F-150 A/B**

**50 Shore A Polyurethane Elastomer**



## Product Description

The F-150 A/B system is a production oriented fast gel and fast demould material. F-150 has a work life which allows sufficient time to vacuum de-gas and pour air-free parts. It features an easy mix ratio, low viscosity and short demould times.

The F-150 is ideal for: Part Production, Moulds, Special Effects & Props, Potting, Pigmenting.

Physical Properties			Elevated Temperature Cure *
Hardness	Shore A	ASTM D2240-04e1	50 ± 5
Density	(g/cc)	ASTM D792-00	1.088
Cubic Inches Per Pound		N/A	25.63
Color/Appearance		Visual	Translucent Amber
Tensile Strength	(psi)	ASTM D412-98a(2002)e1	1020
Tensile Modulus	(psi)	ASTM D412-98a(2002)e1	300
Elongation	(%)	ASTM D412-98a(2002)e1	650
Tear Strength	(pli)	ASTM D624-00e1	125
Shrinkage	(in/in) linear	ASTM D2566 @ 1" depth	0.0015**
Dielectric Constant	1 MHz	ASTM D150-87	5.58
Dissipation Factor	1 MHz	ASTM D150-87	0.0688

Note:

\*Reported physical properties based on test specimens cured 1-3 hours at room temperature then 16 hours at 71°C.

\*\*Shrink test specimens are cured for 24 hours at room temperature and then 16 hours at 71°C.

Handling Properties	Test Method	Part A	Part B
Mix Ratio	By Weight	50	100
Mix Ratio	By Volume	42	100
Specific Gravity	@ 25°C	1.204	1.022
Colour	Visual	Pale Yellow	Amber
Viscosity	Cps @ 25°C Brookfield	925	940
Mixed Viscosity	Cps @ 25°C Brookfield	1000	
Work Time	100g @ 25°C	6-7 minutes	
Gel Time	@ 25°C	8-9 minutes	
Demould Time	@ 25°C	3-4 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 ambient temperature, 25°C. In order to achieve maximum physical properties, a post cure with heat is required. BJB recommends 1-3 hours at 25°C, followed by 16 hours at 71°C. Do not exceed curing temperature of 93°C.

## Storage

Store at room temperature in a dry place. Unopened containers will have a shelf life of 6 months from date of shipment when properly stored under normal conditions at 25°C. Purge opened containers with dry nitrogen before re-sealing.

## Notes

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

The cure will be inhibited if cast against a tin catalyzed silicone RTV.

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## Revision Number

2

## Disclaimer

The data presented in this leaflet are in accordance with the present state of our knowledge, and does not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the product for a particular purpose.

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