



PRO FLEX 40

DESCRIPTION:

Pro Flex 40 Liquid Rubber is a flexible 40 shore A, fast-curing rubber, which has been developed specifically for prototyping and model making applications. It is excellent for casting decorative objects, production parts, tools, models, patterns, duplicate masters and more. With the addition of Poly Colour Dyes, **Pro Flex 40** can be used to cast parts of any colour.

PRODUCT HIGHLIGHTS:

- Very easy to use
- Quick de-mould time
- Good tear strength
- Easily pigment-able
- Can be vacuum cast or hand poured

PHYSICAL PROPERTIES:

Property		Typical Value	Units
Colour	Part A	Clear Yellow	-
	Part B	Clear Yellow/Amber	-
Mix Ratio	By Weight	1A:1B	-
	(By Volume)	92A:100B	-
Specific Gravity	Mixed	1.07	-
Mix Viscosity		850	cP
Pot Life	(100g @25oC)	10	Minutes
De-mould time	(100g @25oC)	2-3	Hours
Linear Shrinkage		0.0001	
Tensile Strength		730 (5.03)	psi (MPa)
Elastic Modulus		N/A	psi (MPa)
Shore Hardness		A40	
Die C Tear Strength		433 (76)	pli (kN/m)
Elongation		660	%

Key Data

Mix Ratio

1 Part A
to
1 Part B

Gel Time

(100g @ 25°C)
10Min

De-mould Time

(100g @ 25°C)
2-3 Hours

Hardness

(Shore A)
40

Colour

Translucent Amber



MOLD PREPARATION:

Pro Flex 40 reproduce minute details from moulds or patterns, but may stick or foam when poured on improperly prepared surfaces. To avoid damaging a valuable mould, perform a trial casting on a similar surface. Polyethylene and platinum silicone rubber (i.e., Platsil®) moulds do not require release agents. Latex, polyurethane rubber or metal moulds must be dry and coated with a suitable release agent, such as Spray Wax or Release Extra

MIXING: Prior to mixing, be sure that all moulds, equipment and Pro Flex liquids are ready at room temperature (i.e., >23°C).

Shake or stir Parts A and B if directed by product label. Over time, sediment may accumulate on the container bottom of **Pro Flex 40**

Part B. Normally, gentle mixing is all that is required to disperse the sediment. Use metal or plastic mixing vessels and spatulas to avoid introducing moisture (i.e., with paper or wood tools). Measure or weigh Parts A and B into a mixing container, such as a polyethylene pail. Mix immediately, thoroughly scraping sides and bottom for one minute. Pour mix into cavity as quickly as possible. Once the containers of Parts A and B are opened, they should be used or resealed tightly since atmospheric moisture contamination may cause foaming. Poly Purge™, a dry-gas product, can be sprayed into opened containers to displace moist air before resealing containers to extend shelf life.

SAFETY PRECAUTIONS:

Use in a well-ventilated area. Avoid contact with skin. Repeated or prolonged contact may cause an allergic reaction.

Eye protection is very important. Always use approved safety glasses or goggles when handling this product

PACKAGING:

2kg (1kg A + 1kg B, 10kg (5kg A + 5kg B)

Suitability for Use:

The information in this data sheet is given to the best of our knowledge and belief but without warranty or liability. The user must establish the suitability of the material for the intended application by carrying out any appropriate tests. No liability will be accepted for direct or consequential losses arising from the use of this material.

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