

Polycraft 022 Medium Foam

1. Introduction

Polycraft 022 Medium Foam reacts with Part B isocyanate to form an integral skin flexible polyurethane foam.

2. Applications

Polycraft 022 Medium Foam has been formulated for use primarily for moulding and casting applications requiring a good skin to the finished product. The processing characteristics allow for mixing by hand, drill or machine, although best results are obtained with a machine.

3. Specification

Property	Units	Minimum	Maximum
Cream Time (100g 20°C)	Seconds	20	30
Rise Time (100g 20°C)	Minutes	2	4
Free-rise S.G.	-	0.16	0.22

4. Mix Ratios

By Weight: 2.40 Parts A to 1.00 Part B

By Volume: 2.70 Parts A to 1.00 Part B

The components should be measured to an accuracy of 2% or better. Care should be taking when measuring by volume as this is an inherently inaccurate method unless specific volumetric measuring equipment is used.

5. Typical Properties

Property		Typical Value	Units
Colour	Part A	Milky white unless pigmented	-
	Part A	Pale brown	-
	Mixed	Off-white unless pigmented	-
S.G.	Part A	1.02	-
	Part B	1.16	-
	Free-Rise (20°C)	0.19	-
Cream Time (100g 20°C)		25	Seconds
Rise Time (100g 20°C)		3	Minutes
Full Cure		12	Hours

6. Preparation of Components

Neither component requires preparation other than mixing prior to removal of any product from the containers.

7. Preparation of Moulds

Moulds should be clean and dry and generally a good quality release agent should be used and allowed to dry fully.

To obtain the lowest density mouldings and best skin the moulds should be warmed to 35°C. However, the material will mould satisfactorily at ambient temperatures, giving a higher moulded density.

Moulds should be vented to allow the air to escape and the material to fill the mould. The size, number and location of the vent holes should be determined by estimation and trials.

8. Handling and Storage

The relevant Safety Data Sheets should be read carefully before using this material.

Good housekeeping is important with this material as with all chemicals. Spillages should be wiped up immediately and containers wiped clean after use. Isocyanate spillages can be especially hazardous and the Safety Data Sheet should be consulted for the correct cleaning up procedure.

Both components will absorb moisture, which will detract from obtaining satisfactory product. Exposure to atmosphere should therefore be minimised and containers sealed as soon as possible after use. Ideally part-used containers should be purged with dry nitrogen before resealing.

The Part A component should be stored in the original container in a dry place at 5-25° C. This product contains volatile blowing agents and care must be taken when opening drums, especially if only part full. The isocyanate component should be stored in the original container in a dry place at 15-25°C.

Both components have a minimum shelf life of 12 months from the date of manufacture.

9. Health and Safety

The Safety Data Sheet provides information on the health and safety aspects of this material. Please contact Creative Resins if you do not have a Safety Data Sheet for each of the components of this material.

The Part A component is classified according to the requirements of the CLP regulations as FLAMMABLE and the MSDS must be read prior to use of this material.

The Part B component is classified according to the requirements of the CLP regulations as DANGER and the MSDS must be read prior to use of this material.

10. Suitability for Use

The information in this datasheet 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. Finished products produced from any batch of our materials must be subjected to comprehensive standards of quality control by the user.

11. Additional Information

Please note that this product has not been tested for all applications and it is strongly recommended that customers carry out adequate trials to determine the suitability of this material for the intended use.

No liability will be accepted for direct or consequential losses arising from the use of this material.