

TECHNICAL DATASHEET

Eracast CC PG 60A is a polyether-based polyol blend which, when reacted with **MDI 30M**, yields a medium performance elastomer of 55 - 60 Shore A hardness with good hydrolytic stability.

Eracast CC PG 60A contains various additives which aid the processing of the material, and contribute to the physical properties of the cured elastomer.

Application

Eracast CC PG 60A is suitable for use in hand-mixing applications where a relatively soft, flexible elastomer is required for a non-arduous application.

Product Specification

	CC PG 60A POLYOL CURATIVE	MDI 30M ISOCYANATE PREPOLYMER
Specific Gravity at 25°C	1.3	1.22
Viscosity at 25°C (cPs)	1000 - 1200	150 - 250
Appearance	Clear liquid	Dark brown liquid

Mixing and Curing Conditions

		CC PG 60A / MDI 30M
CC PG 60A	(pph)	100
MDI 30M	(pph)	30
Recommended % Theory		95
CC PG 60A Temperature	(°C)	25
MDI 30M Temperature	(°C)	25
Pot Life at 25°C	(mins)	5 - 7
Gel Time for a 100g mix	(mins)	3 - 4
Demould Time at 30°C	(mins)	15 - 16
Post Cure Time at 30°C	(hrs)	16 - 24

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

Physical Properties

Properties presented below are to be used as a guide and not intended for specification purposes.

		CC PG 60A / MDI 30M	TEST METHOD
Hardness	(Shore A)	55 - 60	DIN 53505

Processing Procedure

During processing, **Eracast CC PG 60A** will experience up to 2% shrinkage due to the heat of the reaction. It is imperative to store **Eracast CC PG 60A** in a sealed container in order to prevent the absorption of atmospheric moisture which would cause the mixed product to foam.

As with all polyurethane products, the cured elastomer should not be exposed to very strong acids or bases. The highest temperature at which the product should be used is 80 to 85°C in order to maintain the full physical properties. The material can tolerate short period temperature increases up to approximately 120°C without permanently impairing any of the physical properties.

1. Weigh out the components in the correct ratio and mix together thoroughly without entraining air.
2. Pour the mixture into moulds which have been coated with a suitable release agent. The temperature of the moulds prior to casting should be 30°C.
3. Allow the mixture to gel and partially cure in the mould. The time required for this operation will vary according to mould design and size, but will be in the region of 10 - 15 minutes.
4. Demould the finished piece and post cure at ambient temperature overnight. Optimum properties are attained after a further seven days at room temperature.

Packaging

Standard packs consist of 25kg plastic drums. Larger packs are available on request.

Storage

Eracast CC PG 60A should be stored in a dry environment. Prolonged or repeated heating of the material will accelerate decomposition. Partly used containers should be resealed immediately after use.

Handling Precautions

Eracast CC PG 60A does not represent a significant health hazard to users under normal conditions of industrial exposure.

MDI 30M is an isocyanate containing material and normal standards of industrial hygiene should be observed during its handling. Safety goggles, gloves and overalls should be worn, and the material should preferably be used in a well-ventilated area. Inhalation of its vapours should be avoided.

Please read MSDS before handling the products.

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