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Erapol CC95A

HIGH PERFORMANCE COLD CASTABLE URETHANE
ELASTOMER

TECHNICAL DATASHEET

Erapol CC95A is a high performance cold castable polyurethane elastomer. The product is free from MOCA (methylene-bis-ortho-chloroaniline) and flammable solvents.

When mixed on ratio, an elastomer with outstanding toughness, high elongation, excellent tear strength and abrasion resistance is produced. The cured product can comfortably operate in conditions as varied as minus 50°C to 110°C.

It offers advantages in that it can be readily processed and cured at room temperatures. The convenient mix ratio and low viscosity allow easy processing.

Product Specifications

	ISOCYANATE PREPOLYMER (A)	POLYOL CURATIVE (B)
%NCO	6.25 ± 0.25	-
Specific Gravity at 25°C	1.06	1.20
Viscosity at 25°C (cps)	10,300 – 10,700	400 - 440

Mixing and Curing Conditions

Isocyanate Prepolymer (A)	(pbw)	100
Polyol Curative (B)	(pbw)	15
Prepolymer (A) Temperature	(°C)	25 – 30
Curative (B) Temperature	(°C)	25 – 30
Mixed Viscosity at 25°C	(cps)	5000
Pot Life at 25°C	(mins)	6 - 10
Recommended Cure Time	24 hrs at 25°C will result in an 80% cure.	



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.

		CC95A	TEST METHOD
Hardness	(Shore A)	95 ± 3	AS1683.15
Tensile Strength	(MPa)	44	AS1683.11
100% Modulus	(MPa)	12.4	AS1683.11
300% Modulus	(MPa)	26.2	AS1683.11
Elongation	(%)	380	AS1683.11
Abrasion Resistance	(mm ³)	85	AS1683.21
Cured Specific Gravity	(g/cm ³)	1.12	AS1683.4
Linear Shrinkage at 23°C (500mm length x 46mm width x 16 mm thick)	(%)	0.2	

NOTE: Both Part A and B components are moisture sensitive. Once opened, containers should be purged with nitrogen, if they are to be stored for a period of time.

Below 15°C Part A will appear as a white wax like substance. Placing the can in a bath of hot water for 15-30 minutes can melt the Part A. Care should be exercised in keeping moisture away from the Part A.

Processing Procedure

1. Carefully weigh the correct proportions of the two components together in one container, mix thoroughly. Be careful not to entrap air whilst mixing.
2. Pour the mixed material into moulds that have been prepared with release agent, being careful to avoid trapping air.
3. Allow casting to cure before demoulding.

Adhesion

Adhesion of Erapol based elastomers to various substrates is at best marginal if a primer is not used. Please consult Era Polymers for specific recommendations to improve adhesion.

Handling Precautions

Erapol CC95A Part A contains small amounts of free TDI. Therefore the product should be used in well-ventilated areas. Avoid breathing in vapours and protect skin and eyes from contact.

In case of skin contact, immediately remove excess, wash with soap and water. For eye contact, immediately flush with water for at least 15 minutes. Call a physician.

If nose, throat or lungs become irritated from breathing in vapours, remove exposed person to fresh air. Call a physician.

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