



**Era Polymers Pty. Ltd.**  
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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 50oC to 110oC.

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 @ 25°C	1.06	1.20
Viscosity @ 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 @ 25°C	(cps)	5000
Pot Life @ 25°C	(mins)	6 - 10
Recommended Cure Time	24 hrs at 25°C will result in an 80% cure.	



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## Physical Properties

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

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