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TECHNICAL DATA

Erapol ETL85A

*MEDIUM PERFORMANCE POLYETHER BASED URETHANE
ELASTOMER*

Erapol ETL85A is a liquid isocyanate terminated pre-polymer based on PPG polyol.

Having a PPG backbone means that this polymer is considerably cheaper than polymers made from PTMEG. It finds applications in those areas where the outstanding properties of PTMEG based materials are not needed.

Additionally **ETL85A** can be blended with premium grade compounds to product formulations to intermediate performance/cost.

PRODUCT SPECIFICATIONS

% NCO	4.2 ± 0.2
Specific Gravity @ 25° C	1.02
Viscosity @ 80° C (cps)	300 - 700
Colour	Amber

MIXING AND CURING CONDITIONS

	ETL85A / Moca	ETL85A / Ethacure
Erapol ETL85A (pbw)	100	100
Moca Level (pbw)	12.5	-
Ethacure Level (pbw)	-	10.0
Recommended % Theory	95	95
Erapol Temperature (°C)	75 - 85	60 - 70
Curative Temperature (°C)	110 - 120	Room Temperature
Pot Life (minutes)	10	8
Demould Time @ 100°C (hours)	2	2
Post Cure Time @ 100°C (hours)	16	16

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.

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TYPICAL CURED PROPERTIES

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

PHYSICAL PROPERTIES

	ETL85A / MOCA	ETL85A / Ethacure
Hardness (Shore A)	85 \pm 3	85 \pm 3
Tensile Strength (MPa)	13.8	12.4
100% Modulus (MPa)	4.8	4.1
300% Modulus (MPa)	9.0	7.6
Elongation (%)	400	400
Angle Tear Strength (DIE C) (kN/m)	80	70
Abrasion (DIN) (mm³)	130	
Cured Density (g/cm³)	1.10	1.10
Compression Set (22 hours at 70° C, %)	45	60

PROCESSING PROCEDURE

1. Erapol ETL85A should be heated to 80 - 85°C and thoroughly degassed at 1-5 mm of vacuum until excessive foaming stops.
2. The curative should be added to ETL85A, the Moca must first be melted at 110-120° C prior to mixing and Ethacure 300 processed at room temperature. After adding the curative, mix thoroughly, being careful not to introduce air into the mixture.
3. Pour mixed ETL85A/Moca or ETL85A/Ethacure 300 into moulds that have been preheated to 80-100° C and pre-coated with release agent.

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 ETL85A 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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