

Erapol ETL65A

POLYETHER (PPG) TDI PREPOLYMER

TECHNICAL DATASHEET

Erapol ETL65A 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.

Additionally **ETL65A** can be blended with premium grade compounds to product formulations to intermediate performance/cost.

Applications

Generally used in applications where the outstanding properties of PTMEG based materials are not needed.

Product Specification

% NCO	2.85 ± 0.2	
Specific Gravity at 25°C	1.06	
Viscosity at 80°C (cps)	100 - 500	
Colour	Amber	

Mixing and Curing Conditions

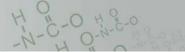
	ETL65A / MOCA	ETL65A / Ethacure 300
(pph)	100	100
(pph)	8.6	<i>X7771</i> 74111 1 1111
(pph)		6.9
	95	95
(°C)	75 - 85	60 - 70
(°C)	100	20 - 30
(mins)	25	20
(hrs)	2	2
(hrs)	16	16
	(pph) (pph) (°C) (°C) (mins) (hrs)	(pph) 100 (pph) 8.6 (pph) - 95 (°C) 75 - 85 (°C) 100 (mins) 25 (hrs) 2



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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Physical Properties

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

	ETL65A / MOCA	ETL65A / Ethacure 300	TEST METHOD
Hardness (Shore A)	65 ± 3	66 ± 3	AS1683.15
Tensile Strength MPa (psi)	8.0 (1160)	5.0 (525)	AS1683.11
100% Modulus MPa (psi)	2.1 (305)	-	AS1683.11
300% Modulus MPa (psi)	4.4 (638)	-	AS1683.11
Elongation (%)	1100	800	AS1683.11
Angle Tear Strength, Die C (kN/m)	30	25	AS1683.12
Trouser Tear Strength (kN/m)	9	7	AS1683.12
DIN Resilience (%)	45	48	DIN53512
DIN Abrasion Resistance 10N (mm ³)	165	150	AS1683.21
DIN Abrasion Resistance 5N (mm³)	52	53	AS1683.21
Compression Set / 22 hr at 70°C(%)	45	<u>-</u>	AS1683.13
Cured Specific Gravity (g/cm³)	1.08	1.08	AS1683.4

Processing Procedure

- 1. **Erapol ETL65A** should be heated to the recommended processing temperature and thoroughly degassed at -95 kpa of vacuum until excessive foaming stops.
- 2. The curative should be added to **ETL65A**, 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 materials 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 ETL65A 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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