

Erapol L-ETL91A

POLYETHER (PPG) TDI PREPOLYMER

TECHNICAL DATASHEET

Erapol L-ETL91A is a liquid isocyanate terminated pre-polymer based on PPG polyol. Having a PPG backbone means that this pre-polymer is considerably more economical than polymers made from PTMEG.

Additionally **Erapol L-ETL91A** can be blended with premium grade compounds to product formulations to intermediate performance/cost.

Moreover, Erapol L-ETL91A has a lower free TDI content compared to conventional grades.

Application

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

Product Specification

% NCO	5.00 ± 0.20
Specific Gravity at 77°C (25°C)	1.03
Viscosity at 176°F (80°C) (cps)	100 - 500
Colour	Amber

Mixing and Curing Conditions

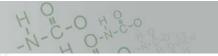
		L-ETL91A / MOCA	L-ETL91A / Eracure 300
Erapol L-ETL91A	(pph)	100	100
MOCA Level	(pph)	15.0	-
Eracure 300 Level	(pph)	M IIII (977/11)	12.0
Recommended % Theory		95	95
Erapol Temperature	°F (°C)	167 – 185 (75 – 85)	140 – 158 (60 – 70)
Curative Temperature	°F (°C)	230 – 248 (110 – 120)	68 – 86 (20 – 30)
Pot Life	(mins)	6	5
Demould Time at 212°F (100°C	(hrs)	. 1	1
Post Cure Time at 212°F (100°C	C) (hrs)	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.

Version 1 Date of Issue: 22 January 2014 Page 1 of 2





Physical Properties

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

		L-ETL91A / MOCA
Hardness	(Shore A)	90
Tensile Strength	psi (MPa)	3916 (27)
100% Modulus	psi (MPa)	1059 (7.3)
300% Modulus	psi (MPa)	1900 (13.1)
Elongation	(%)	435
Angle Tear Strength, Die C pli (kN/m)		468 (82)
DIN Resilience	(%)	-
DIN Abrasion Resistance	139	
Compression Set / 22hr	45	
Cured Specific Gravity	(g/cm ³)	1.10

Processing Procedure

- 1. **Erapol L-ETL91A** should be heated to the recommended processing temperature and thoroughly degassed at -95kpa of vacuum until excessive foaming stops.
- 2. The curative should be added to **L-ETL91A**, the MOCA must first be melted at 230 248°F (110 120°C) prior to mixing. After adding the curative, mix thoroughly, being careful not to introduce air into the mixture.
- Pour mixed L-ETL91A/MOCA into moulds that have been preheated to 176-212°F (80-100°C) and precoated 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 recommendation to improve adhesion.

Handling Precautions

Erapol L-ETL91A 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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Version 1 Date of Issue: 22 January 2014 Page 2 of 2