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Erapol L-ETL69D

MEDIUM PERFORMANCE POLYETHER BASED
URETHANE ELASTOMERS

TECHNICAL DATASHEET

Erapol L-ETL69D is a liquid isocyanate terminated prepolymer based on medium performance polyether polyols. Additionally, **Erapol L-ETL69D** is a lower free TDI version of Erapol ETL69D.

Product Specification

% NCO	8.0 ± 0.2
Specific Gravity at 25°C	1.10
Viscosity at 60°C (cps)	400 - 800
Colour	Amber

Mixing and Curing Conditions

		L-ETL69D/ MOCA	L-ETL69D / Ethacure 300
Erapol L-ETL69D	(pph)	100	100
MOCA Level	(pph)	22.9	-
Ethacure 300 level	(pph)	-	18.4
Recommended % Theory		90	90
Erapol Temperature	(°C)	55 - 65	55 - 65
Curative Temperature	(°C)	105 - 115	20 - 30
Pot Life	(mins)	3 - 6	3 - 6
Demould Time at 100°C	(hrs)	1	1
Post Cure Time at 100°C	(hrs)	16	16

All results are based on 100 grams of **Erapol L-ETL69D** at 60°C.



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.

		L-ETL69D/MOCA	L-ETL69D/E300*	TEST METHOD
Hardness	(Shore D)	70 ± 3	70 ± 3	AS1683.15
Tensile Strength	MPa (psi)	43 (6237)	34 (4931)	AS1683.11
100% Modulus	MPa (psi)	29.0 (4206)	23.4 (3394)	AS1683.11
200% Modulus	MPa (psi)	35.7 (5178)	27.7 (4017)	AS1683.11
300% Modulus	MPa (psi)	-	32.5 (4714)	AS1683.11
Angle Tear Strength, Die C	(kN/m)	145	131	AS1683.12
Elongation	(%)	275	300	AS1683.11
DIN Resilience	(%)	46	42	DIN 53512
DIN Abrasion Resistance 10N	(mm ³)	182	171	AS1683.21
Cured Specific Gravity	(g/cm ³)	1.19	1.16	AS1683.4

*E300 = Ethacure 300

Processing Procedure

1. **Erapol L-ETL69D** should be heated to 60 ± 5°C and thoroughly degassed at -95kpa of vacuum until excessive foaming stops.
2. The curative should then be added to the **Erapol L-ETL69D**. MOCA must first be melted at 110-120°C; Ethacure 300 can be used at room temperature. After adding the curative, mix thoroughly, being careful not to introduce air into the mixture.
3. Pour mixed polymer into moulds that have been preheated at 100 - 110°C and pre-coated with release agent.

NOTE: When using MOCA, if post cure temperature is less than 100 - 110°C, the polymer may have a glassiness/brittle appearance.

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.

The following primers are recommended for the various substrates:

AD-6	Two component metal primer, room temperature cure.
AD-1147	Single component metal primer, ambient to 100oC cure.
PR-1167	Single component primer for rubber and polyurethanes.

NOTE: It is important that all dirt, rust, grease and all be removed from surfaces prior to applying the primers.

Handling Precautions

Erapol L-ETL69D 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.

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