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Erapol ETL752D

MEDIUM PERFORMANCE POLYETHER BASED
URETHANE ELASTOMERS

TECHNICAL DATASHEET

Erapol ETL752D is a liquid isocyanate terminated prepolymer based on medium performance polyether polyols. It gives 75 Shore D hardness when cured with MOCA.

Product Specification

% NCO	8.00 ± 0.20
Specific Gravity at 25°C	1.11
Viscosity at 80°C (cps)	650 – 850
Colour	Clear, light amber

Mixing and Curing Conditions

		ETL752D/ MOCA
Erapol ETL752D	(pph)	100
MOCA Level	(pph)	22.9
Recommended % Theory		90
Erapol Temperature	(°C)	55 - 65
Curative Temperature	(°C)	110 - 120
Pot Life	(mins)	5 - 6
Demould Time at 100°C	(hrs)	1
Post Cure Time at 100°C	(hrs)	16

Note: pph Curative is 90% theory based on midpoint NCO.



Physical Properties

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

		ETL752D/MOCA	TEST METHOD
Hardness	(Shore D)	75 ± 3	AS1683.15
Tensile Strength	MPa (psi)	51.6 (7484)	AS1683.11
100% Modulus	MPa (psi)	34.0 (4931)	AS1683.11
Elongation	(%)	265	AS1683.11
Angle Tear Strength, Die C	(kN/m)	173	AS1683.12
Trouser Tear Strength	(kN/m)	80	AS1683.12
DIN Resilience	(%)	40	DIN 53512
DIN Abrasion Resistance 10N	(mm ³)	170	AS1683.21
Compression Set / 22 hr at 70°C	(%)	37	AS1683.13
Cured Specific Gravity	(g/cm ³)	1.18	AS1683.4

Processing Procedure

1. **Erapol ETL752D** should be heated to 60 ± 5°C and thoroughly degassed at -95kpa of vacuum until excessive foaming stops.
2. MOCA should be added to the preheated **Erapol ETL752D** and mixed 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.

Handling Precautions

Erapol ETL752D 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.



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