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AUSTRALIA
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Erapol EMP70D

MEDIUM PERFORMANCE POLYETHER BASED
URETHANE ELASTOMER

TECHNICAL DATASHEET

Erapol EMP70D is a liquid isocyanate terminated pre-polymer based on a blend of PPG and PTMEG.

Having a PPG/PTMEG backbone means that this polymer is suitable in less demanding applications, where cost is a concern. Its performance falls between that of a PPG and a PTMEG system.

Product Specification

% NCO	8.7 ± 0.2
Specific Gravity at 25°C	1.05
Viscosity at 80°C (cps)	300 - 800
Colour	Amber

Mixing and Curing Conditions

		EMP70D / MOCA
Erapol EMP70D	(pph)	100
MOCA level	(pph)	23.5
Recommended % Theory		85
Erapol Temperature	(°C)	75 - 85
Curative Temperature	(°C)	110 - 120
Pot Life	(mins)	1.5 - 2
Demould Time at 100°C	(mins)	30
Post Cure Time at 70°C	(hrs)	16

All results are based on 200 grams of **Erapol EMP70D** at 80°C and MOCA at 110°C.



This information is of general nature and is supplied without recommendation or 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.

		EMP70D/MOCA	TEST METHOD
Hardness	(Shore D)	71 ± 3	AS1683.15
Tensile Strength	MPa (psi)	42 (6091)	AS1683.11
Angle Tear Strength, Die C	(kN/m)	130	AS1683.12
Elongation	(%)	150	AS1683.11
Cured Specific Gravity	(g/cm ³)	1.12	AS1683.4
DIN Abrasion Resistance 10N	(mm ³)	135	AS1683.21

Processing Procedure

1. Carefully weigh the correct amount of **Erapol EMP70D** into a container, heat to 75 – 85°C and thoroughly degas under vacuum at -95kpa.
2. Carefully weight correct proportion of melted MOCA into the **Erapol EMP70D**, mix thoroughly. Be careful not to entrap air whilst mixing.
3. Pour the mixed materials into moulds that have been preheated to 100oC and pre-coated with release agent.
4. Allow casting to cure before demoulding.

Erapol EMP70D is also suitable for machine processing.

Handling Precautions

Read the product's material safety datasheet (MSDS) before using the product.

Erapol EMP70D should be used in well-ventilated area. Avoid inhaling vapours and protect skin and eyes from contact.

In case of skin contact 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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