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SQH75A

HIGH PERFORMANCE MDI ELASTOMER –
FOR SQUEEGEE

TECHNICAL DATASHEET

SQH75A is an MDI based elastomer giving a hardness of 75 +/- 3 Shore A.

Application

SQH75A has been formulated for squeegee applications. The cast elastomer has **good abrasion resistance** and **excellent solvent resistance** even in aggressive solvents like MEK.

Product Specification

	ISOCYANATE PREPOLYMER (A)	POLYOL CURATIVE (B)
Viscosity at 80°C (cps)	600 - 800	50 - 150
Appearance at 25°C	-	Milky liquid
Appearance at 60°C	Clear liquid	-

Mixing and Curing Conditions

Isocyanate Prepolymer (A)	(pbw)	100
Polyol Curative (B)	(pbw)	28
Erapol Temperature	(°C)	70
Curative Temperature	(°C)	25 - 30
Pot Life (128g sample)	(mins)	4 - 6
Mould Temperature	(°C)	80 - 90
Oven Temperature	(°C)	80 - 90
Demould Time at 110°C	(mins)	20
Cure at 80°C	(hours)	16
Post Cure at 25 - 30°C	(days)	3



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Physical Properties

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

		SQH75A	TEST METHOD
Hardness	(Shore A)	75 ± 3	AS1683.15
Tensile Strength	(MPa)	17	AS1683.11
100% Modulus	(MPa)	6	AS1683.11
Angle Tear Strength, Die C	(kN/m)	60	AS1683.12
Elongation	(%)	270	AS1683.11
DIN Abrasion Resistance 10N	(mm ³)	100	AS1683.21
Cured Specific Gravity	(g/cm ³)	1.2	AS1683.4

Processing Procedure

- Both Part A and Part B components are moisture sensitive. Once opened, containers should be purged with nitrogen, if they are to be stored for a period of time.
- Heat the **SQH75A** Isocyanate (Part A) in an oven overnight so the material is at the correct temperature before use. The can of Isocyanate should be rolled to ensure the contents are uniform before sampling. **Note:** Repeated heating and cooling of the **SQH75A** Isocyanate may result in some yellowing in the cast elastomer.
- The **SQH75A** Part B must first be mechanically mixed prior to processing or decanting. Degas the curative (Part B) at approximately -95kpa of vacuum before adding to the **SQH75A** Part A.
- Weigh the required amount of **SQH75A** Part A into a container and thoroughly degas at approximately -95kpa of vacuum until excessive foaming stops.
- The required amount of Curative (Part B) should be added to the Part A. After adding the curative, mix thoroughly for 1 – 2 minutes being careful not to introduce air into the mixture. If required, degas the mixed components at -95kpa of vacuum.
- Pour mixed **SQH75A** into moulds which have been pre-heated and pre-coated with release agent.
- Allow casting to cure in a flat tray at the specified temperature for the specified time before de-moulding.

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

Before using this product please consult the **SQH75A** Material Safety Data Sheet.

SQH75A should be used in well-ventilated areas. Avoid breathing in vapours and protect skin and eyes from direct 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.