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TECHNICAL DATA

Ecofoam MF710

RIGID MOULDING FOAM

DESCRIPTION

Ecofoam MF710 is a two part polyurethane system comprises a polyol and isocyanate component. When mixed in their correct proportions produce fine-celled foam with a free rise density of 71 kg/m³. This product is water and HFC blown.

The system is designed for use in moulding applications where good skin is required. The foam can be used for moulding components such as imitation wood, computer cabinets, shoe heels as well as for moulding fishing lures.

The product can be manually drill mixed (@ a minimum speed 2000 rpm) or processed through a polyurethane foam dispensing equipment.

COMPONENT PROPERTIES

	Polyol	Isocyanate
Appearance	Clear, honey coloured liquid	Dark brown liquid
Brookfield Viscosity (cps)	1070	250
Specific Gravity @ 20°C	1.14	1.23

REACTION PROFILE

Laboratory results based on hand-mix @ 20°C

Mix ratio by weight (Polyol: Iso) 100:100

Mix time (seconds)	25
Cream time (seconds)	60
Gel time (seconds)	165
Tack free time (seconds)	260
Free rise density (kg/m³)	71

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.



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TYPICAL PHYSICAL PROPERTIES

Foamed Density (Packed) (kg/m³)	89	
Compressive stress @ 10% (kPa) Parallel to the rise	808	(Based on AS2498.3)
Compressive stress @ 10% (kPa) Perpendicular to the rise	701	(Based on AS2498.3)
Closed Cell Content (%)	>92	(Based on AS2498.7)
Thermal Conductivity-initial (W/mK)	0.02395	(Based on ASTM C518)
Flexural strength (MPa)	1.3	(Based on AS2132)

STORAGE CONDITIONS AND HANDLING

The components are sensitive to humidity and should at all times be stored in sealed drums. The recommended storage temperatures are 18-25°C, which will give a normal shelf life of 3 months. At elevated temperatures problems may arise with pressure build-up within the drums. When opening these drums extreme care must be exercised in releasing the internal pressure. It is recommended that the drum contents should be mixed well before use.

HEALTH AND PERSONAL PROTECTION

Before handling these chemicals please consult the Material Safety Data Sheets for the two components. The polyol component contains tertiary amines. Contact with the skin or eyes must be avoided. Safety goggles and protective gloves should be worn whenever handling both of the chemicals. Splashes that come into contact with the skin must be wiped off immediately and the contaminated area washed with soap and water. Splashes in the eye must be flushed immediately with plenty of clean running water. If irritation occurs thereafter contact an eye specialist.

GENERAL INFORMATION

At temperatures less than 15°C the reaction rate of **Ecofoam MF710** will be much slower resulting in an increase in density, and reduction in foam yield and quality. Also at temperatures above 30°C the cream time will be drastically reduced.

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