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# TECHNICAL DATA

## Ecofoam AF335

RIGID POLYURETHANE APPLIANCE FOAM

**Ecofoam AF335** is a rigid polyurethane foam system with a free rise density 33 kg/m<sup>3</sup>.

The system is designed to be used as appliance foam. It has been designed for use in a wide range of insulation and cavity filling applications. The product can be manually drill mixed (@ a minimum speed 2000 rpm) or processed through a polyurethane foam dispensing equipment.

### COMPONENT PROPERTIES

	<b>Polyol</b>	<b>Isocyanate</b>
<b>Appearance</b>	Clear, light amber liquid *	Brown liquid
<b>Brookfield Viscosity (cps)</b>	620	250
<b>Specific Gravity</b>	1.15	1.22

\* Note: The polyol may be coloured blue when required.

### REACTION PROFILE

Laboratory results based on hand-mix @ 20°C

Mix ratio by weight (Polyol: Iso) 100:110

<b>Mix time (seconds)</b>	20
<b>Cream time (seconds)</b>	37
<b>Gel time (seconds)</b>	185
<b>Tack free time (seconds)</b>	390
<b>Free rise densities (kg/m<sup>3</sup>)</b>	33

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

<b>Foamed Density</b>	45 kg/m <sup>3</sup>	
<b>Compressive Strength (@ 10%) Perpendicular to the rise of foam</b>	240 kPa	Test Method AS2498.3
<b>Closed Cell Content</b>	>92 %	Test Method AS2498.7
<b>Thermal Conductivity (initial)</b>	0.0233 W/mK	

## 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

1. The degree of insulation is determined by the thickness of the foam. For cavity fill or moulding applications it is recommended to mould a density 38-40 kg<sup>3</sup>.
2. At temperatures less than 15°C the reaction rate of Ecofoam AF335 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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