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# TECHNICAL DATA

## Ecofoam AF300

*RIGID POLYURETHANE APPLIANCE FOAM*

**Ecofoam AF300** is high performance, high-yield and rigid polyurethane foam system with a nominal free rise density 29 kg/m<sup>3</sup>. This product contains no CFC's or HCFC's and is environmentally friendly foam that has no ozone depleting potential.

**Ecofoam AF300** is formulated for use where excellent flow properties are required in void filling. The system can be manually drill mixed (@ a minimum speed 2000 rpm) or processed through a foam dispensing machine.

### COMPONENT PROPERTIES

	<b>Polyol</b>	<b>Isocyanate</b>
<b>Appearance</b>	Honey coloured liquid	Brown liquid
<b>Brookfield Viscosity (cps)</b>	620	250
<b>Specific Gravity</b>	1.15	1.23

### REACTION PROFILE

Laboratory results based on hand-mix @ 20°C

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

**100 : 100**

<b>Mix time (seconds)</b>	18
<b>Cream time (seconds)</b>	30
<b>Gel time (seconds)</b>	170
<b>Tack free time (seconds)</b>	280
<b>Free rise density (kg/m<sup>3</sup>)</b>	29

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>	38 kg/m <sup>3</sup>	
<b>Compressive Strength (@ 10%) Parallel to the rise of foam</b>	145 kPa	Test Method AS2498.3
<b>Closed Cell Content</b>	>92 %	Test Method AS2498.7
<b>Thermal Conductivity (initial)</b>	0.0225 W/mK	

<b>Dimensional Stability</b>	Test Method AS2498.6
<b>Measured as % change in dimension</b>	
<b>Foamed density 38 kg/m<sup>3</sup></b>	

	<b>Width</b>	<b>Length</b>	<b>Thickness</b>
<b>1 week @ 95°C (%)</b>	0.5	0.7	1.45

**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 AF300** will be much slower resulting in an increase in density, and reduction in foam yield and quality. Under these conditions we recommend the use of temperature controlled conditions for drums storage.

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