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# TECHNICAL DATA

## Greenlink SF300HD

HIGH DENSITY RIGID FOAM – FAST CURE PROFILE

### DESCRIPTION

**Greenlink SF300HD** is high density rigid foam with a fast cure profile. The foam has a free-rise density of 300 kg/m<sup>3</sup>. The system is designed for machine processing to fill cavities and moulded parts. Contact Era Polymers if more information is required on application and technical data for this product.

For machine recommendations please refer to Era Polymers.

### COMPONENT PROPERTIES

	<b>Polyol</b>	<b>Isocyanate</b>
<b>Appearance</b>	Honey coloured liquid *	Dark brown liquid
<b>Brookfield Viscosity (cps) @20°C</b>	1190	200
<b>Specific Gravity @20°C</b>	1.09	1.23

Note: \* Product can be supplied as green foam depending on customer requirements.

### REACTION PROFILE

Laboratory results based on hand-mix @ 20°C

**Mix ratio by weight (Polyol: Iso) 100:125**

<b>Mix Time (seconds)</b>	15
<b>Cream Time (seconds)</b>	24
<b>Gel Time (seconds)</b>	53
<b>Tack-Free Time (seconds)</b>	70
<b>Density (kg/m<sup>3</sup>)</b>	300

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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## **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.

### **POLYOL COMPONENT**

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.**

### **ISOCYANATE COMPONENT**

The isocyanate component is liquid at room temperature. To produce high quality foam the following is recommended.

Isocyanate should be stored in a dry environment, indoors in a well ventilated area in keeping with good practice for normal factory conditions. The isocyanate is to be stored between 18-25°C.

The isocyanate must be blanketed with dry nitrogen after decanting material from the container as moisture in the air will react with the isocyanate if the container is left open to the atmosphere.

If the temperature falls below 15°C, the product may crystallise. If crystallisation does occur, melt-out at 60-70°C may be necessary. Do not store the isocyanate above 50°C as the shelf life of the product is shortened.

## **HEALTH AND PERSONAL PROTECTION**

As with all isocyanates, good industrial practice should be employed, e.g. avoid contact with eyes, skin and clothing. Avoid breathing in the vapours.

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**

The degree of insulation is determined by the thickness of the foam.

At temperatures less than 15°C the reaction rate of **Greenlink SF300HD** 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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