

EcoPearl PIPU-55SR-33

General Properties and Applications EcoPearl PIPU-55SR-33 is a polyol formulation used to produce rigid polyurethane foam for the insulation of composite district heating pipes. The range of application comprises the continuous insulation of semiflexible preinsulated district heating pipes. Suitability must be examined by the prior to commercial use.

Sampling	The polyol formulation should be homogenized before sampling and protected against moisture.
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Other Data* Property	Value	Unit of measurement	Method
Density at 25 °C	approx. 1.114 ± 0.01	g/cm ³	
Viscosity at 25 °C	approx. 750 ± 100	mPa·s	

* These values provide general information and are not part of the product specification

Packaging	In 200l drums
Storage	Warranty (from date of delivery): 6 months if stored in sealed, moisture-tight containers. Storage temperature: 25 ± 2 °C

Labeling and REACH applications This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet. Any updating of safety-relevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently valid Safety Data Sheet.

EcoPearl[®] PIPU-55SR-33

Directions for Processing

Guide formulation	Parts per weight
EcoPearl [®] PIPU-55SR-33	100
SYSTEM ISO 44V20 L	106

Hand-mixing with the product at a temperature of 22 ± 0.5 °C and stirring at a speed of 4,000 rpm gives the following values:

Cream time	15 ± 2	Seconds
Gel time	40 ± 5	Seconds
Free-rise density	50 ± 1	kg/m ³
Recommended Molded Density	>60	kg/m ³

When processed with the advised ratio and machine parameters, the panels produced from system yields the following properties

Physical Property	Test Method	Unit	Result
Molded Density	ASTM D 1622	kg/m ³	>60
Compressive Strength	ASTM D 1621	kPa	> 100
Dimensional Stability 24hrs by thickness @ 25°C @ -20°C @ +70°C	ASTM D 2126	%	< 1 < 1 < 1
Closed cell Content	ASTM D 6226	%	≥ 90
Initial Thermal Conductivity	ASTM C 518	W / m °K	≤ 0.027

These values are given only as a guide and must be verified in each individual case on finished parts manufactured under the processor's production conditions.

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The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Pearl Polyurethane Systems LLC. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

This product is not designated as „Medical Grade“ and therefore shall not be considered a candidate for the manufacture of a medical device or of intermediate products for medical devices, which are intended under normal use to be brought into direct contact with the patient's body (e.g., skin, body fluids or tissues, including indirect contact to blood)*. [This product is also not designated for Food Contact (1), including drinking water, or cosmetic applications. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, for Food Contact products or cosmetic applications Pearl Polyurethanes Systems LLC must be contacted in advance to provide its agreement to sell such product for such purpose.]

Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for Food Contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by Pearl Polyurethane Systems LLC.

1) As defined in Commission Regulation (EU) 1935/2004.

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