

Baymer® SHPU-40-11A

General Properties and Applications Baymer® SHPU-40-11A is a polyol formulation used to produce spray foam insulation for roofing, wall and basements with a density of 40kg/m³. It contains all the raw material and auxiliaries necessary for the production of rigid polyurethane foam including blowing agent 141b.

Sampling Moisture access should be prevented, formulation should be agitated before sampling.

| Specification Property | Value | Unit of measurement | Method |
|-------------------------------|-----------|---------------------|--------|
| Hydroxyl number (theoretical) | 340 ± 20 | mg KOH/g | |
| Water content | 0.9 ± 0.1 | % by wt. | |

| Other Data* Property | Value | Unit of measurement | Method |
|----------------------|-------------|---------------------|--------|
| pH | approx. 7,8 | | |
| Density | approx. 1,1 | g/ml | |

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

Packaging 200l steel drums - IBC, tank truck and tank containers on request

Storage Shelf life from time of delivery: 3 months if stored in sealed moisture tight containers.

Recommended storage temperature: 20-30°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.

| Directions for Processing | Guide formulation | parts by weight |
|---------------------------|---------------------|-----------------|
| | Baymer® SHPU-40-11A | 100 |
| | Desmodur® 44V20L | 100 |

Baymer[®] SHPU-40-11A

Baymer[®] Spray systems are designed for processing on high and low pressure machines that are able to work at mixing ratios of 1:1 by volume, the machine parameters have to be selected in such way to ensure proper mixing.

Typical properties to be achieved under recommended application parameters

Properties

| | |
|---------------------------|---------------------------|
| Density | 40-42 kg/m ³ |
| Compressive strength | approx 150 kPa |
| Thermal Conductivity | |
| At 25 deg C | 0.02165 W/m K |
| At 35 deg C | 0.02235 W/m K |
| Fire rating | DIN 4102-1 B3 |
| Water absorption | < 2% |
| Material / m ² | 1,3-1,5 kg/m ² |

Foaming data by the hand mixing method at raw material temperature of 21°C

| | | |
|-------------------|------------|-------------------|
| Cream time | 5 ± 1 | Seconds |
| Tack Free Time | 15 ± 1 | Seconds |
| Free Rise Density | 30 ± 1 | kg/m ³ |
| Applied density | approx. 40 | kg/m ³ |

The methods described in this publication for testing the fire performance of polyurethane and the results quoted do not permit direct conclusions to be drawn regarding every possible fire risk there may be under service conditions.

Furthermore, this does not release the producer of the finished parts from his obligation to carry out suitable tests on his end product with respect to fire performance and/or fire risk in order to guarantee conformity with the required fire safety standard.

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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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)*. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, Baysystems Pearl FZCO 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 must be made solely by the purchaser of the product without relying upon any representations by Baysystems Pearl FZCO. * Please see the "Guidance on Use of Bayer MaterialScience Products in a Medical Application" document. In case of questions, please contact: productsafety@bayerbms.com

Editor: BaySystems Pearl FZCO
P.O. Box 262021
JAFZA 17
Dubai, UAE
Tel: + 971 4 333 7837
Fax : + 971 4 320 2627
www.bayermaterialscience.com

Contact :
Schuetze, Marc
e-mail: marc.schuetze@bayerbms.com