

Product information

Polyurethanes

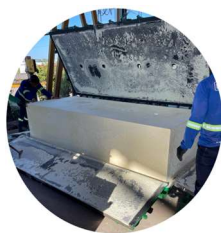
PU 8228

FEATURES

- HFO expanded
- Very good thermal insulation

COMPOSITION

- Part A: Polyol PU8228 A
- Part B: Isocyanate PU8228 B
- Part C: HFO



PU 8228 is a rigid expanded polyurethane system designed for the production of thermal insulation blocks.

APPLICATIONS

- Discontinuous block for thermal insulation.

TYPICAL PROPERTIES

This data does not constitute the Product Sales Specifications. The values indicated refer to typical properties and are not to be understood as extreme minimum or maximum values. They do not constitute a guarantee of product conformity and do not relieve the buyer from the need to test the suitability of the products before use or placing them in his production cycle. Please contact your local sales representative to obtain the product specifications.

Properties	Unit	Value
Color (Part A)	Visual	Yellowish
Density at 23°C (Part A)	g/cm ³	1.107
Viscosity at 23°C (Part A)	mPa.s	680
Hydroxyl number (Part A)	mg KOH/g	378
Flash point (Part A)	°C	40
Color (Part B)	Visual	Brown
Density at 23°C (Part B)	g/cm ³	1.230
Viscosity at 23°C (Part B)	mPa.s	210
NCO value		31
Density at 23°C (Part A + Part C)	g/cm ³	1.033
Viscosity at 23°C (Part A + Part C)	mPa.s	212
Mixing ratio A : C : B	pbw	86 : 14 : 110
Cream time	sec	30
String time	sec	260
End of rise	sec	300
Free rise density	kg/m ³	32
Suggested molded density	kg/m ³	40 - 45
Demoulding	ore	6 - 8
Lambda ($\Delta T=20^{\circ}C$)	mW/m ⁻¹ K ⁻¹	22,5

SETTING

Mechanically mix Part A (Polyol) before each withdrawal from the container. The two components must be processed at a temperature between +20°C and +30°C. High temperatures increase the reaction speed, reducing the workability time.

USE

Add Part C (HFO) to the polyol, slowly and while stirring. Use a premix tank or add to the polyol tank,

placed on a scale, under slow mixing, introducing the HFO directly into the polyol from the bottom. HFO cylinder pressure: 2-3 bar of inertizing nitrogen. Check with the scale that the quantity added to the polyol is actually that indicated in the recipe. When calculating the quantity necessary to fill the volume of the mold, consider a weight loss of approximately 20%.

HANDLING PRECAUTIONS

PU8228A polyol contains METHYL FORMATE a highly flammable product that generates pressure in containers. Isocyanate reacts with atmospheric humidity. The reaction of isocyanates with water leads to the formation of insoluble ureas and carbon dioxide, with increased pressure in closed containers.

USABLE LIFE - STORAGE

Store in original, tightly closed containers, at temperatures between +10°C and +35°C. At low temperatures isocyanate can crystallize. Do not expose to high temperatures to avoid the formation of insoluble solids and increase in viscosity. Components should be stored indoors to protect the material from water infiltration, frost and direct heat from the sun. In temperate conditions and in properly sealed containers, the shelf life of the components is 6 months..

PACKAGING

The components are supplied in 200 liters drums. For other packaging please contact our sales department.

LIMITATIONS

This product is neither tested nor represented as suitable for food contact, skin contact or medical uses.

LIMITED WARRANTY

The information contained in this document is offered in good faith based on Chemix research and is believed to be accurate. However, as the conditions and methods of use of our products are beyond our control, this information should not be used as a substitute for the tests that customers must first perform to ensure that Chemix products are fully satisfactory for their specific applications. The warranty is only applicable to the values indicated in the Product Sales Specifications. The sole and exclusive compensation for products with values that are out of specification is limited to the replacement of the product or the refund of the purchase price.

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