

# Product information

## Polyurethanes

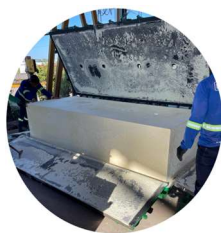
## PU 8229

### FEATURES

- HFO expanded
- Very good thermal insulation

### COMPOSITION

- Part A: Polyol PU8229 A
- Part B: Isocyanate PU8229 B
- Part C: HFO



PU 8229 is a rigid expanded PIR 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	yellow
Density at 23°C (Part A)	g/cm <sup>3</sup>	1,166
Viscosity at 23°C (Part A)	mPa.s	600
Hydroxyl number (Part A)	mg KOH/g	448
Color (Part B)	Visual	Brown
Density at 23°C (Part B)	g/cm <sup>3</sup>	1.230
Viscosity at 23°C (Part B)	mPa.s	210
NCO value		31
Density at 23°C (Part A + Part C)	g/cm <sup>3</sup>	1,093
Viscosity at 23°C (Part A + Part C)	mPa.s	345
Mixing ratio A : C : B	pbw	89 : 11 : 210
Cream time	sec	35
String time	sec	105
End of rise	sec	150
Free rise density	kg/m <sup>3</sup>	27
Suggested molded density	kg/m <sup>3</sup>	40 - 45
Compressive strength at 10%	kPa	300
Lambda (ΔT=20°C)	mW/m <sup>-1</sup> K <sup>-1</sup>	22,4
Fire behaviour		self-extinguishing

### 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.

### HANDLING PRECAUTIONS

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

Polyol and isocyanate are supplied in 200 liters drums and 1000 liters IBCs. 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.

Chemix disclaims any other explicit or implicit guarantee referring to the suitability of the Products in specific user's applications.

Chemix disclaims any liability for incidental or consequential damages resulting from the use of the Product.

[www.chemix.it](http://www.chemix.it)

Chemix Srl Via Berlinguer 8, 21010 Golasecca (Italy). Phone +39(0)331959373 [info@chemix.it](mailto:info@chemix.it)

