

AssanChem PUR 270

PRODUCT DESCRIPTION

AssanChem PUR 270 is designed for the production of PUR filled sandwich panels with flammability class B2* between metal surfaces. It is the PUR system developed for the production of four-component sandwich panels and is suitable for the production of panels with different thicknesses between 40-150 mm.

*DIN 4102-1 standard is taken as reference.

CHEMICAL CHARACTERISTICS

Component	Component Name	Description
A Component	AssanChem PUR 270	Mixture of Polyols
B Component	AssanChem PMDI 01	Polymeric MDI
C Component	AssanChem PUR CAT20	Mixture of Catalysts
E Component	n-Pentane	Blowing Agent

STORAGE

Polyurethane components are sensitive to moisture. Therefore, it should always be stored in closed packaging at recommended temperatures. More detailed information for storage, transportation and safe use can be found in the safety data sheet.

	Unit	A	B	C
Storage Temperature	°C	18-25	15-25	18-25
Shelf Life	month	6	6	6

HANDLING AND SAFETY

For chemical materials, request an updated safety data sheet. Information about the safe use and disposal of materials can be found in the safety data sheet. It is recommended to consult the safety data sheet before using the materials. Protective glasses, gloves and work safety shoes should be worn during production. Chemical contact with skin should be avoided. In case of possible contact, the contact area of the material should be washed with plenty of water.

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TECHNICAL PROPERTIES

	Unit	A	B	C	E	Method
Density	<i>g/cm³ (20°C)</i>	1,19	1,24	0,95	0,63	TS 1724 EN ISO 1675
Viscosity	<i>mPa.s (25°C)</i>	1450	600	950	0,21	ASTM D4878
NCO Content	%	-	30-31,5	-	-	ASTM D 5155

PROCESS CONDITIONS

Mixing Ratio of Components

A	B	C	E
100	150	2	9

Reaction Profile

	Unit	Value	Method
Stirring time	s	5	
Cream time	s	9-11	
String time	s	26-30	*Assan Panel's In-House Method
Rise time	s	48-52	
Tack free time	s	38-42	
Free rise density	kg/m ³	33,5-35,5	

*The values were obtained in the laboratory at 20 °C temperature and 3000 rpm stirrer speed. The given values may vary depending on the process conditions.

Processing Temperature

	Unit	Value
Raw material temperature	°C	20-22
Metal surface temperature	°C	42-46
Temperature of laminator	°C	45-50

The mixing ratio of chemical components will vary depending on panel thickness, line speed, density and line properties. The formulas required for sandwich panel production with different filling thicknesses can be created with the support of technical personnel.

AssanChem PUR 270**PHYSICAL PROPERTIES**

	Unit	Value	Method
Shell Density	kg/m^3	38	ASTM D 1622
Compressive Strength	MPa	0,146	ASTM D 1621
Tensile Strength	MPa	0,146	ASTM D 1623
Thermal Conductivity	W/mK	0,022	ASTM C 518
Closed Cell Amount	%	96,8	TS EN ISO 4590
Dimensional Stability	%	Max. 1	TS ISO 2796

The measured values were obtained from the sample prepared in the laboratory.

Samples Dimensions: 50 mm x 50 mm x 50 mm

CONTACT

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