

POL 508/5

Edition 3 / Jan. 2019

Description:

POL 508/5 is a formulated Polyol to be used in combination with C-Pentane or CFC11as blowing agent, for the thermal insulation of freezers and refrigerators.

This Polyol is a mixture of polyether polyols, glycols, activators (contains amine), stabilizer, and does not contain any physical blowing agent.

The product is based on Diphenyle Methane Diisocyanate and can be used with all available brands of MDI possessing the below mentioned properties.

POL 508/5

Specification and typical properties	Appearance	Light yellow liquid
	Viscosity at 25 ° C	2500±200 mPa.s
	Density at 25 ° C	approx. 1.06±0.01 g/cm ³
	OH Value	410-430 mgKOH/g

MDI

Specification and typical properties	Appearance	Dark brown liquid
	Viscosity at 25 ° C	approx. 160-240 mPa.s
	Density at 20 ° C	approx. 1.23 g/cm ³
	NCO content	30.5 -32.5 % by wt.
	Acidity max.	200 ppm HCl

Processing Conditions and performance (LAB TEST)

Product	Parts by weight	Cream time (sec.)	Gel time (sec.)	Free rise density kg/m ³
POL 508/5	100	8-11	70-78	23-25
C- Pentane	13-15			
MDI	138-142			

Product	Parts by weight	Cream time (sec.)	Gel time (sec.)	Free rise density kg/m ³
POL 508/5	100	8-11	70-78	23-25
R-11	26-28			
MDI	138-142			

Laboratory conditions:

Ambient temperature:	22-25 °C
Elevation:	1000 meters from sea level
Mixer speed:	5000 rpm
Iso/Polyol temperature	25 ° C.
Mould temperature	40-50 ° C

Typical Foam Properties

Item	Units	Results
Density Core	Kg/m ³	32-35
Overall	Kg/m ³	37-39
Compression Strenght (Per.)	N/mm ²	0.13
Dimensional Stability	-30° C	<0.5
	+70° C	<1
Thermal Conductivity at 23° C	W/mK	

Shelf life Shelf life is guaranteed for 6 months.

Safety Information

Avoid direct skin contact as it may cause irritation/ blistering. If spilled over eyes should be rinsed with eyewash solution and cold water. If ingested, mouth should be washed with water and should not induce vomiting.

Preparation Before using, this polyol has to be mixed very well.

Packing POL 508/5 will be delivered in 220 kg net drums.

This product is very sensible to moisture and drums have to be closed very well.
The recommended storage temperature is between +15° and +25° C.
Polyol should not be stored below 15 ° C and Isocyanate not below 15 °C.
The storage life is guaranteed for 6 months.