

POL 230 HM

Edition 1/ Jan. 2022

Description:

POL 230 HM is an all-MDI based HR Cold-cure formulated Polyol system provisionally developed for production of low density seat cushions for the automotive and furniture industries.

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 230 HM

Specification and typical properties	Appearance	Turbid White Liquid
	Viscosity a@ 25 ° C	2350 ± 50 mPa.s
	Specific Gravity @ 20°C	Approx. 1.17 g/cm ³

MDI

Specification and typical properties	Appearance	Brown liquid
	Viscosity @ 25 ° C	70 - 110 mPa.s
	Specific Gravity @ 25°C	Approx. 1.23 g/cm ³
	NCO content	28 - 30 % by wt.
	Acidity (as HCL)	<0.05

Processing Conditions and performance (LAB TEST)

Product	Parts by weight	Cream Time (sec.)	Rise Time (sec.)
POL 230 HM	100	10-13	78-87
MDI (Index 100)	50-65		

Processing Conditions at Machine

Iso/Polyol temperature	22 - 25 ° C.
Mould temperature	40 - 50 ° C
Demoulding Time	5 min.



Typical Foam Properties

Item	Units	Results
Mixing ratio Polyol/Isocyanate	Pbw	100/60
Moulded Core Density	Kg/m^3	N.A
Moulded Overall Density	Kg/m^3	46-53
Compression Set (50%) 70°C, 22hrs	%	N.A
Compression Set (70%) 70°C, 22hrs	%	N.A
Tear Stength	kN/m	N.A
Tensile Strength	KPa	N.A
Elongation	%	N.A

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 230 HM will be delivered in 210 kg net drums.

Storage

This product is very sensitive 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.

