

# POL 310

Edition 2 / Jan. 2015

## Description:

POL 310 is a formulated polyurethane system for integral skin production used in automotive and furniture industries.

This Polyol is a ready-for-use polyol formulated using mixture of polyether polyols, activators (contains amine) stabilizer and does not contain any physical blowing agent.

The product is based on Diphenyle Methane Di Isocyanate and can be used with crude as well as with modified MDI for obtaining desired foam properties.

## POL 310

### Specification and typical properties

Appearance

Transparent Liquid

Viscosity a@ 25 ° C

Approx. 1300 mPa.s

Specific Gravity @ 25°C

Approx. 1.05 g/cm<sup>3</sup>

## MDI

### Specification and typical properties

Appearance

Brown liquid

Viscosity @ 25 ° C

Approx. 100-200 mPa.s

Specific Gravity @ 25°C

Approx. 1.23 g/cm<sup>3</sup>

NCO content

29 - 31 % by wt.

Acidity ( as HCL)

<0.05

## Processing Conditions and performance (LAB TEST)

Product	Parts by weight	Cream Time (sec.)	Rise Time (sec.)	Free rise density kg/m <sup>3</sup>
POL 310	100	22-28	45-65	90-110
HCFC 141b	11			
MDI (Index 100)	50			

## Processing Conditions at Machine

Iso/Polyol temperature	22 - 25 ° C.
Mould temperature	45 ° C
Demoulding Time	6-7 min.



## Typical Foam Properties

Item	Units	Results
Mixing ratio Polyol/BA/Isocyanate	Pbw	100 : 11 : 50
Moulded Density	<i>Kg/m<sup>3</sup></i>	
Elongation (%)		70
Tensile Strength	<i>kPa</i>	
Tear Stength	<i>N/m</i>	
Hardness	<i>Shore A</i>	60 - 70

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**Shelf life**            Shelf life is guaranteed for 6 months.

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## 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.

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

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**Packing**            POL 310 will be delivered in 210 kg net drums.

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## 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.

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