

# POL 303/1

Edition 2 / Feb. 2021

## Description:

POL 303/1 is a fully formulated Polyol and it is suitable for semi-rigid foam presenting a variety of impact and tension absorbency in all types of car bumpers.

This Polyol is a mixture of various polyols, activators (contains amine), stabilizer and other additives.

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

## POL 303/1

<b>Specification and typical properties</b>	Appearance	light yellow
	Viscosity at 25 ° C	approx. N.A
	Density at 25 ° C	approx. N.A

## PMDI

<b>Specification and typical properties</b>	Appearance	Dark brown liquid
	Viscosity at 25 ° C	approx. 160-240 mPa.s
	Density at 20 ° C	approx. 1.23 g/cm <sup>3</sup>
	NCO content	31-32 % by wt.

## Processing Conditions and performance (LAB TEST)

Product	Part by weight	Cream time (sec.)	Gel time (sec.)	Tack free time (sec.)	Free rise density (kg/m <sup>3</sup> )
POL 303/1	100	15-17	40-45	50-60	30-32
PMDI	127				



## Laboratory conditions:

Ambient temperature:	22-25 °C
Elevation:	1000 meters from sea level
Mixer speed:	5000 rpm
Mixing time:	6 – 8 s
Iso/Polyol temperature	24±1 ° C.
Mould temperature	40 – 45 ° C

## Typical Foam Properties

Item	Units	Result
Density Core	Kg/m <sup>3</sup>	N.A
Density Overall	Kg/m <sup>3</sup>	N.A
Compression Strenght	N/mm <sup>2</sup>	N.A
Dimensional Stability -28° 24 hrs +70°	%	N.A N.A
Thermal Conductivity	W/mK	N.A
Closed cell content	%	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 303/1 will be delivered in 220 kg net drums or one metric IBC

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.

