

POL 221 FR

Edition 1 / m/Jan. 2022

Description:

POL 221FR is a formulated Polyol provisionally developed for production HR moulded foam of seat cushions in automotive and furniture industries.

This product is designed and matched with KMT1040 PMDI (supplied by Karoon Petrochemical Co.) and fulfils the most common physical properties of the foam required by relevant industry. This Polyol is a mixture of polyether polyols, glycols, activators (contains amine), stabilizer and does not contain any physical blowing agent.

POL 221/1FR

Specification and typical properties	Appearance	Turbid White Liquid
	Viscosity a@ 25 ° C	1350 ± 50 mPa.s
	Specific Gravity @ 20°C	1.031 g/cm ³ (approx.)

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)

Component	Parts by weight	Cream Time (sec.)	Rise Time (sec.)
POL 221FR	100	3-10	30-61
KMT 1040	65		

Processing Conditions:

Iso/Polyol temperature	22 - 25 ° C.
Mould temperature	40 - 50 ° C.
Demoulding Time	5 min.
Iso/Polyol mixing ratio	62/100 to 68/100 (pbw)

Typical Foam Properties

Item	Units	Results
Mixing ratio Polyol/Isocyanate	Pbw	100/65
Moulded Core Density	Kg/m^3	N.A
Moulded Overall Density	Kg/m^3	37-51
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, they must be rinsed thoroughly with cold water & proper eyewash solution. If ingested, the mouth must be washed with water and vomiting must not be induced.

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

Packing POL 221FR will be delivered in 210 kg net drums.

Storage

This product is very sensitive to moisture and drums must be sealed properly.

The recommended storage temperature is between +15° and +25°C.

Polyol should not be stored below 5 °C and Isocyanate below 15°C.

The storage life is guaranteed for 6 months if stored properly in the original sealed drum.