



## +++++ TECHNICAL DATA SHEET FORMULATED POLYOL

### EMPEYOL HSR 200 / 1

#### PRODUCT DESCRIPTION:

EMPEYOL HSR 200 / 1 is an eco-friendly CFC free formulated polyether polyol to be used in combination with Polymeric MDI for the production of polyurethane rigid foams for appliance applications. HCFC 141b is to be blended at the customer plant.

#### PROPERTIES OF THE POLYOL :

Colour and appearance		Dark yellow liquid
Viscosity at 25° C	(cps)	4200± 500
Specific Gravity at 21° C		1.10 ± 0.03

#### RECOMMENDED PROCESSING CONDITIONS :

Mixing ratio [ Polyol : HCFC 141b] -	(pbw)	100 : 34± 02
Chemical ratio (I / P) after HCFC 141b addition		1.18 ± 0.02
Viscosity at 21°C (after HCFC 141b addition)	(cps)	250 ± 50
Specific Gravity at 21°C (after HCFC 141b addition)	-	1.140 ± 0.03
Temperature (°C)		
Polyol		22 ± 03
POLYMERIC MDI		20 ± 03

#### REACTION PROFILE USING BENCH MIXER AT 21° C (\*)

Mixing ratio [Polyol : 141b : POLYMERIC MDI].....	(pbw)	100 : 34 : 158
Cream time	(seconds)	12 - 18
Gel time	(seconds)	58 - 73
Free rise density	(kg / cu.m)	21.0 - 24.0
Demould time	(seconds)	240 (minimum)

(\* Depending on customer's requirement, bench properties and free rise density can be varied and supplied)

#### PROPERTIES OF THE FOAM:

Core density	(kg/cu.m)	30.0 (minimum)
Compressive strength	(psi) / kgf / sq.cm	16.0(minimum) / 1.12 (minimum)
Dimensional stability	(% Linear change)	
@ - 30°C for 48 hours		- 0.5 (maximum) for length & breadth; - 1.0 (maximum) for thickness.
@ + 50°C for 48 hours		+ 0.5 (maximum) for length & breadth; + 1.0 (maximum) for thickness
K value	(BTU.in / ft <sup>2</sup> .hour°F) / (W/m.K)	0.135 (maximum) / 0.0195 (maximum)

#### PACKING SIZE

210 kg Nett

#### HANDLING & STORAGE :

EMPEYOL HSR 200/1 and POLYMERIC MDI should be stored in tightly closed containers at temperature between 20°C and 30°C and should not be exposed to direct sunlight.

#### SHELF LIFE 6 MONTHS

#### HEALTH & SAFETY ADVICE :

EMPEYOL HSR 200 / 1 and POLYMERIC MDI should present no hazard in manufacturing operations where satisfactory standards of personal and industrial hygiene are maintained. Precautions should be taken to avoid exposure to the eye or prolonged contact with skin.

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