



TECHNICAL DATA SHEET

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EMPEYOL HSR 200/9XF(PIR GRADE)

PRODUCT DESCRIPTION :	
EMPEYOL HSR 200/9XF (PIR GRADE) is an eco-friendly CFC free formulated polyether polyol to be used in combination with MILLIONATE MR 200 or equivalent isocyanate meeting the requirements for the production of polyisocyanurate type rigid foams for insulation applications. This polyol has been Preblended with HCFC – 141b. “X” implies the presence of fire retardant in the formulated polyol.	
PROPERTIES OF THE POLYOL :	
Colour and appearance	Yellow to brown liquid
Viscosity at 25° C (cps)	250 – 350
Density at 25° C (grams/ cc)	1.140 – 1.160
RECOMMENDED PROCESSING CONDITIONS :	
Mixing ratio [Polyol : Isocyanate –Millionate MR 200 or equivalent] – (pbw)	100 : 167 ± 02
Temperature (°C)	
Polyol	21 ± 03
Isocyanate	21 ± 03
Mould	40 – 50
REACTION PROFILE USING BENCH MIXER AT 21° C	
Mix ratio [Polyol : Iso] pbw	100 : 167 ± 02
Cream time (seconds)	35 – 40
Free rise density (kg/cu.m)	26.0 – 28.0
Demould time (minutes)	20 (minimum)
PROPERTIES OF THE FOAM:	
Flammability test for Foam : Horizontal burning characteristics as per IS : 11239 – part 12-1988	25mm (Maximum).
PACKING SIZE	210 kg Nett
HANDLING & STORAGE :	
EMPEYOL HSR 200/9XF (PIR GRADE) and MILLIONATE MR 200 (or) EQUIVALENT ISOCYANATE 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 200/9XF (PIR GRADE) and Millionate MR 200 or equivalent isocyanate 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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