

PRODUCT DESCRIPTION:

EMPEYOL VE3780 F (Visco Elastic) is formulated polyether polyol to be used in combination with TDI (80/20) for the production of flexible slab stock zero memory foams used in mattress and pillow applications.

PROPERTIES OF THE POLYOL:

Colour and appearance	Clear liquid
Viscosity at 25° C (cps)	350 (maximum)
Specific gravity at 25° C	1.030 ± 0.02

REACTION PROFILE USING BENCH MIXER @ 2000 rpm

Reaction temperature @ 25°C

Mix ratio [Polyol : *Stannous Octoate : TDI 80/20] (*To be added before TDI addition)	100 : (0.03 – 0.05) : 32.0 – 34.0
Cream time (seconds)	10 ± 01
Rise time (seconds)	125 ± 05
Free rise density (kg/cu.m)	55 ± 02
Resilience (%)	15.0 (maximum)

RECOMMENDED PROCESSING CONDITIONS:

- Polyol and TDI shall be cooled to 21 – 25° C.
- Required quantity of polyol, Stannous Octoate and TDI 80/20 shall be calculated based on the volume of the box (for box foaming)
- Stannous Octoate level is to be adjusted to the conditions prevailing in the production process.
- Required quantity of Stannous Octoate shall be added to the polyol and mixed at 1000 – 1500 rpm for 30 seconds before adding TDI 80/20.
- The required quantity of TDI 80/20 shall be added to the above mix and be stirred at 2000 rpm for 5 seconds and poured into the box.
- **CURING SCHEDULE** : 24 hours at ambient temperature for cutting the bun; 72 hours at ambient temperature for slicing into required products and the pieces shall be crushed to remove tightness if required.
- Stacking of products immediately after cutting shall be avoided to prevent markings in the product.

HANDLING & STORAGE:

EMPEYOL VE3780 F (Visco-elastic) and TDI 80/20 should be stored in tightly closed containers & should not be exposed to direct sunlight.

HEALTH & SAFETY ADVICE:

EMPEYOL VE3780 F (Visco-elastic) 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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