

# KONIX KE-1950

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KONIX KE-1950 is a low viscosity graft polyether polyol containing a medium level of copolymerized styrene and acrylonitrile. This polyol is designed primarily for use in preparing flexible slab stock foams having high load bearing.

Used alone, it has been found to produce flexible foams having 40~50% higher hardness than conventional polyether polyol based foams at equivalent densities.

## TYPICAL PROPERTIES

Appearance----- White opaque liquid

Hydroxyl number, mg KOH/g ----- 39.0

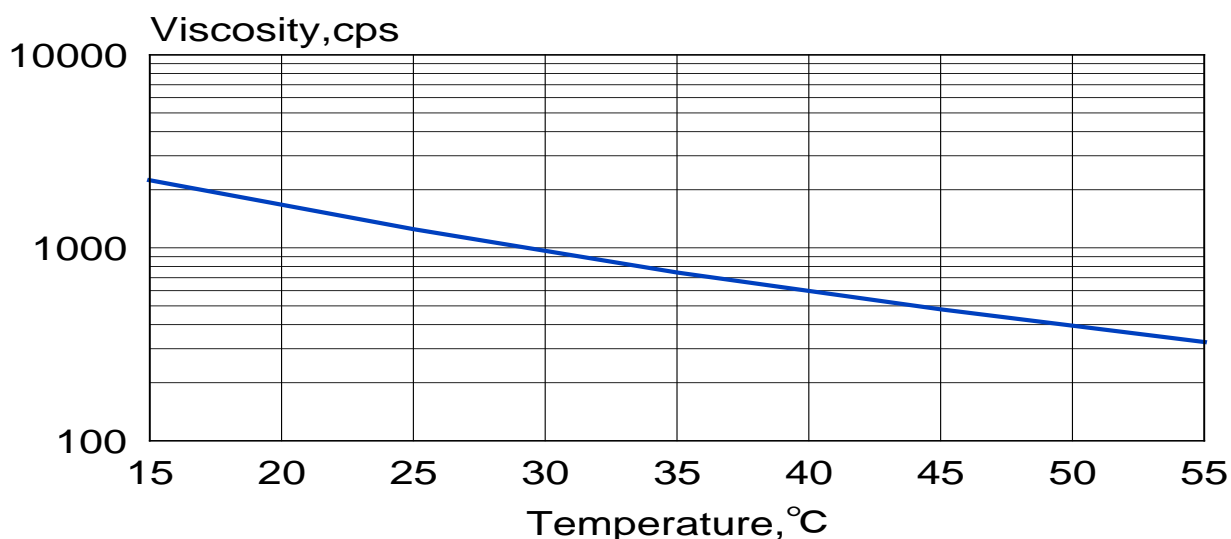
Acid number, mg KOH/g ----- 0.1 max

Water content, wt.%----- 0.1 max

Viscosity, cps at 25°C----- 1250

Solid content, % ----- 22.5

— Viscosity / temperature characteristic



## Formulation and foam properties

| Formulation                           | 1         | 2         | 3         |
|---------------------------------------|-----------|-----------|-----------|
| KONIX KE-1950                         | 100       | 100       | 100       |
| Water                                 | 4.5       | 3.0       | 2.5       |
| L-580                                 | 1.2       | 1.0       | 0.8       |
| Dabco-33LV                            | 0.12      | 0.12      | 0.15      |
| A-1                                   | 0.04      | 0.04      | 0.05      |
| T-9                                   | 0.21      | 0.22      | 0.21      |
| TDI-80(Index)                         | 52.0(105) | 36.8(105) | 31.7(105) |
| Cream time(sec)                       | 11        | 10        | 9         |
| Rise time(sec)                        | 82        | 93        | 90        |
| Density (Kg/m <sup>3</sup> )          | 22.1      | 30.5      | 35.4      |
| ILD (Kg/314cm <sup>2</sup> )          |           |           |           |
| 25%                                   | 15.1      | 16.0      | 17.0      |
| 65%                                   | 34.2      | 35.5      | 37.0      |
| Ball Rebound(%)                       | 32        | 38        | 40        |
| Elongation(%)                         | 90        | 105       | 110       |
| Tensile strength(Kg/cm <sup>2</sup> ) | 1.10      | 1.25      | 1.38      |
| Tear strength(Kg/cm)                  | 0.78      | 0.89      | 0.95      |
| Compression set(%)                    |           |           |           |
| 70 °C, 50%22hrs                       | 5.6       | 3.6       | 3.2       |

\* Test conditions: Hand Mixed, Mixing rpm=5000,

Polyol/TDI temp.= 25 °C / 23 °C

Foam properties: JIS K-6301, 6401

## PACKING

KONIX KE-1950 is supplied in steel drums.

Average net weight 210 kg

Average gross weight 229 kg

## **STORAGE**

KONIX KE-1950 is slightly hygroscopic and must be stored under conditions so that contamination with water and the absorption of atmospheric moisture are prevented. Contact with copper or copper alloys must be avoided.

KONIX KE-1950 should be stored in dry conditions away from direct sources of heat, preferably in the unopened original containers. Opened drums must be re-closed tightly immediately after drawing-off material.

Recommended maximum storage time 12 months.

## **HANDLING PRECAUTIONS**

KONIX KE-1950 is a very low order of acute toxicity and is neither irritating nor sensitizing to the skin. It is a chemical for industrial use and normal care should be taken to avoid unnecessary contacts, splashes in the eyes or accidental ingestion.