



KONIX KE-1990

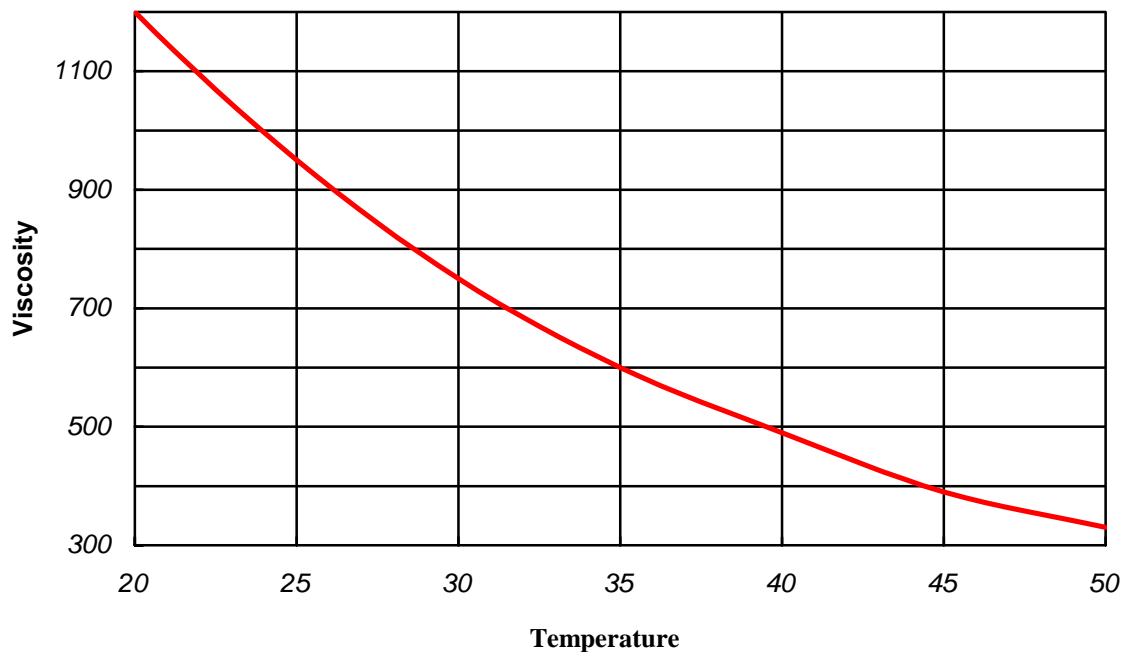
INTRODUCTION

KONIX KE-1990 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 20~30% higher hardness than conventional polyether polyol based foams at equivalent densities.

TYPICAL PROPERTIES

Appearance-----	White viscous liquid
Hydroxyl number, mg KOH/g -----	41.0
Acid number, mg KOH/g -----	0.1 max
Water content, wt.%-----	0.1 max
Viscosity, cps at 25 -----	950
Solid content, % -----	13.5

Viscosity of KONIX KE-1990 at various temperatures





KOREA POLYOL CO., LTD

HEAD OFFICE (SEOUL KOREA)
Tel: 02)393-1100 Fax: 02)362-0034
ULSAN PLANT, R & D CENTER(ULSAN KOREA)
Tel:052-272-5121,276-9561 Fax:052-268-6410

GUIDE FORMULATION

Test No.	1	2	3	4
KONIX KE-1990	100	100	100	100
Water	5.0	3.1	2.5	2.2
BF-2370	1.7	1.0	1.0	1.0
Dabco-33LV	0.15	0.12	0.12	0.12
A-1	0.05	0.04	0.04	0.04
Methylene Chloride	12.0	-	-	-
T-9	0.38	0.20	0.20	0.18
TDI-80(Index)	60.6(110)	39.9(110)	33.7(110)	30.5(110)
Reactivity				
Cream time, sec	14	11	12	12
Rise time, sec	95	105	115	131
Foam physical properties				
Density, kg/m ³	15.3	30.5	35.8	40.2
I.L.D, Kg/314cm ²				
25% def.	12.5	25.0	28.2	30.0
65% def.	27.6	48.6	51.1	55.4
Ball rebound, %	32	44	45	50
Tensile strength, Kg/cm ²	0.77	1.07	1.26	1.16
Tear strength, Kg/cm ²	0.48	0.65	0.85	0.83
Elongation, %	88	135	135	138
Compression set, % (70 , 22hrs, 50%def.)	6.9	2.0	3.0	2.5

Test conditions: Hand Mixed, Mixing rpm=5000, Polyol/TDI temp.= 20 / 20



KOREA POLYOL CO., LTD

HEAD OFFICE (SEOUL KOREA)
Tel: 02)393-1100 Fax: 02)362-0034
ULSAN PLAN, R & D CENTER(ULSAN KOREA)
Tel:052-272-5121,276-9561 Fax:052-268-6410

PACKING

KONIX KE-1990 is supplied in steel drums.

Average net weight 200 kg

Average gross weight 229 kg

STORAGE

KONIX KE-1990 is slightly hygroscopic and must be stored under conditions that contamination with water and the absorption of atmospheric moisture are prevented. Contact with copper alloys must be avoided. KONIX KE-1990 should be stored in dry conditions away from direct source of heat, preferably in the unopened original containers. Open drums must be capped immediately after drawing-off the material. Recommended maximum storage time is 12 months.

HANDLING PRECAUTIONS

KONIX KE-1990 is very low odor of acute toxicity and is neither irritating nor sensitive 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.

KOREA POLYOL Co.,LTD

R & D LAB

300-2, YEOCHEON-DONG, NAM-GU, ULSAN, KOREA

TEL : 052-279-0200

FAX : 052-268-6410

HEAD OFFICE

6TH FLOOR, FINE CHEMICAL BUILDING, 190-3, 2-GA, CHOONGJUNG-RO, SEODAEMOON-GU, SEOUL, KOREA

TEL : 02-393-1100

FAX : 02-362-0034
