



PVC Paste Resin (Homopolymer)

KM-31

General properties

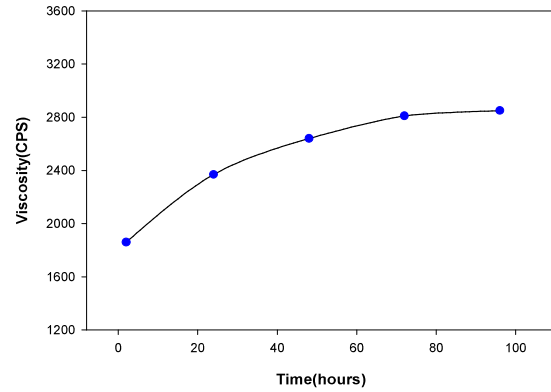
KM-31 is a medium molecular weight micro-suspension type PVC homopolymer.

It produces plastisol exhibiting low viscosity at low shear rate and low viscosity aging property with medium-high plasticizer level (60~100 phr).

Plastisol made from this polymer exhibits the following properties.

- ▶ low viscosity and low viscosity aging rate-long shelf life with little tendency to sediment
- ▶ good dispersion property and very low content of coarse particles with every type of mixers
- ▶ high speed coating, good processibility and very thin coating
- ▶ good air release and low gelling temperature
- ▶ good heat resistance and good transparency
- ▶ low moisture content and low heat loss

Viscosity Aging



1 hours aged at 25 °C

Formulation
PVC 100
DINP 60 phr

Polymer properties

Property	Unit	Typical Value	Test Method
Polymerization Degree	-	1300±50	JIS K 6720-2
K-value	-	72	DIN 53726
Apparent Bulk Density	g/cc	0.33±0.05	ASTM D 1895
Volatile Content	%	Max. 0.30	ASTM D 3030
Particle Size	%	100	100 mesh pass
BF viscosity(20rpm)	Pa.s	2	ASTM D
Viscosity at 500 sec ⁻¹	Pa.s	9	1824

BF viscosity test conditions:

PVC 100

DINP 60 phr

1 hours aged at 25 °C



The information given herein and other otherwise supplied to users is based on our general experience and where applicable, on the results of tests on samples of typical manufacture. However, because of the many factors which are outside knowledge and control, which can effect the use of these products, users must rely on their own judgment and we cannot accept liability for any injury, loss or damage resulting from reliance upon such information.



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Applications

KM-31 produces plastisols which are ideal for the manufacture of vinyl gloves by dip molding.

KM-31 plastisols are also ideal for the dip molding of vinyl gloves with very thin thickness at low oven temperatures and with excellent mechanical properties.

KM-31 can be applied by spread coatings coating, rotational and slush molding

The main applications are

- ▶ vinyl gloves with very thin thickness, transparency and medium-high mechanical properties
- ▶ rotational moldings, slush moldings and dip coatings with good mold release where medium-high mechanical properties are required

Guideformulations

If plastisol is made with KM-31, very excellent gloves can be produced. KM-31 can be used in wide application of gloves (sterile and Non-sterile, clear and color, pre-powered and powder etc.)

Vinyl Gloves	
KM-31	100 phr
DOP	60~ 100
DOA	0 ~ 10
Stabilizer(Ca-Zn Type)	2 ~ 3
Diluent	as required
Pigment	as required

Toy	
KM-31	100 phr
Blend Resin	0~20
DOP	75
Epoxy Plasticizer	3
Stabilizer	3
Diluent	as required
Pigment	as required