

PVC PASTE RESIN (K 70 – 73)

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

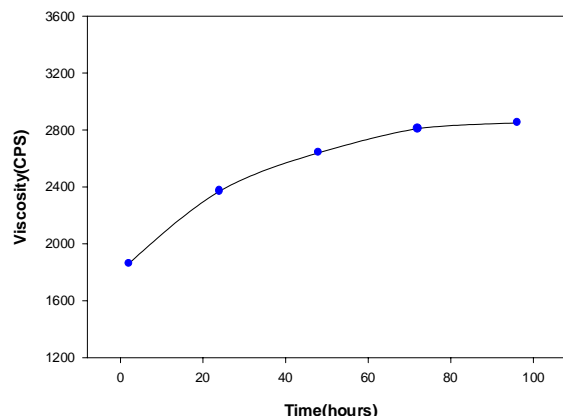
Good air release and low gelling temperature

Good heat resistance and good transparency

Low moisture content and low heat loss

Viscosity Aging

Brookfield Viscometer



No.4 Spindle

20rpm

Formulation

DOP 70 / PVC 100

Polymer Properties

Property	Unit	Typical Value	Test Method
Polymerization Degree	-	1300±50	JIS 6721
K-value	-	70~73	JIS 6721
Apparent Bulk Density	g/cc	Min. 0.20	JIS 6721
Volatile Content	%	Max. 0.50	JIS 6721
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

DOP 70 phr

1 hours aged at 25 oC

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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

Guide formulations for Gloves

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 colour, pre-powered and powder etc.)

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

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