



KH-10

General properties

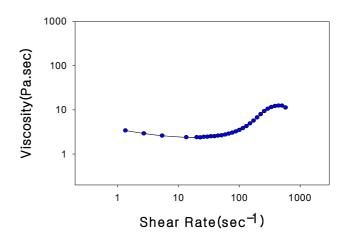
KH-10 is a high molecular weight microsuspension type PVC homopolymer.

It produces plastisol exgibiting low viscosity at low shear rate and slight dilatancy at high shear rates with low-medium plasticizer level (40~60 phr).

Plastisol made from this polymer exhibit the following properties.

- ▶ high clarity and semi gloss surface finish
- excellent mechanical properties
- good thermal/light stability with a wide range of standard stabilizers
- ► low viscosity and low viscosity aging rate long shelf life with little tendency to sediment
- ▶ low water absorption
- ▶ high electrical resistance

Rheological properties



1 hours aged at 25 °C

Formulation PVC 100 DOP 60 phr

Polymer properties

Property	Unit	Typical	Test
		Value	Method
Polymerization degree	-	1700 ± 100	JIS K 6720-2
K-value	-	76	DIN 53726
Apparent density	g/cc	0.23±0.04	ASTM D1895
Volatile content	%	Max. 0.30	ASTM D3030
Particle size	%	100	100 mesh pass
BF viscosity(20rpm)	Pa.s	2	ASTM D
Viscosity at 500 sec ⁻¹	Pa.s	12	1824

BF viscosity test conditions:

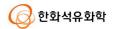
PVC 100

DOP 60 phr

1 hours aged at 25 °C

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본사 100-797 서울특별시 중구 장교동 1번지 한화빌딩







Applications

KH-10 produces plastisols which are well suited for the solid spread coating, especially clear coats with low plasticizer content and where high mechanical properties are required.

Due to the low viscosity, *KH-10* plastisols are also ideal for all types of coatings and for rotational molding, dip coating and the casting process.

KH-10 plastisols can be applied by direct or transfer spread coating process, including drum gelling process.

The main applications are

- ▶ low plasticizer content spread coatings, especially high clarity top coats for floor covering, wall coverings, and coated fabric application requiring high mechanical properties.
- low-medium plasticizer content rotational moldings and dip coating with an excellent surface finish and high mechanical properties.
- ▶ slush molding process which produces rain boots, shoes, car arm rests and parts for the interiors of motor vehicles.

for any injury, loss or damage resulting from reliance upon such information.

Guide formulations

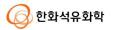
Top layer of Floor Covering		
KH-10	60~70 phr	
Blend Resin	30~40	
DOP	40~60	
2nd plasticizer	5~10	
Stabilizer	3	

Doll (Rotational Molding)		
KH-10	100 phr	
DINP	40~70	
Epoxied plasticezer	3	
Filler(calcium carbonate)	0~30	
Diluent	as required	
Pigment	as required	

Slush Molding (Semi rigid product)		
KH-10(KL-10)	70 phr	
Blend resin	30	
DOP(DINP)	$30 \sim 40$	
2nd plasticizer(TXIB)	5	
Stabilizer(Ca-Zn)	3	
Pigment	as required	

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