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Beyond Your Dream

EM2070

General properties

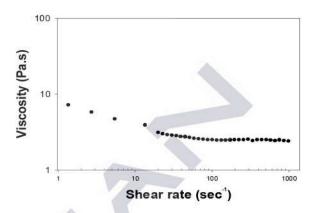
EM2070 is a fine particle size, medium molecular weight emulsion type PVC homopolymer.

It produces plastisol exhibiting low-medium viscosity at low shear rate and pseudoplastic flow at high shear rates with low plasticizer level (40-60 phr).

Plastisol made from this polymer exhibit the following properites.

- ▶ high filler loading property
- ▶ good clarity and semi gloss surface finish
- ▶ good foaming properties with a wide range of stabilizers especially liquid K/Zn or Na/Zn type
- good rheological property with a wide range of shear rates
- good thermal/light stability with a wide range of stabilizers especially liquid Ba/Zn or Tin type
- ▶ low viscosity aging rate-long shelf life with little tendency to sediment

Rheological properties



1 hours aged at 25 °C

Formulation PVC 100 DOP 60 phr

Polymer properties

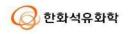
Property	Unit	Typical Value	Test Method
Polymerization degree	-	1150±50	JIS K 6720-2
K-value	-	69	DIN 53726
Apparent density	g/cc	0.28±0.07	ASTM D1895
Volatile content	%	Max. 0.30	ASTM D3030
Particle size	%	100	100 mesh pass
BF viscosity(20rpm)	Pa.s	4.7	ASTM D
Viscosity at 500 sec-1	Pa.s	2.5	1824

BF viscosity test conditions:

PVC 100

DOP 60 phr

1 hours aged at 25 °C







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Applications

EM2070 produces plastisols which are ideal for the production of high solids content compact coating, including chemically foamed wall paper with low plasicizer content. *EM2070* plastisols are also ideal for the spread coating of chemically blown foams with a fine cell structure produced at low-medium oven temperatures.

EM2070 can be applied by rotary screen or comma or transfer spread coating process.

The main applications are

- ▶ low-medium plasticizer and high filler content chemically blown foam coating for wallpaper and synthetic leather cloth especially in blend with EM3090
- low-medium plasticizer content compact spread coatings on to fabric including high clarity top coats for tarpaulins, protective clothing etc.
- spread coatings of compact thin coatings on high speed reverse roll and rotary screen and comma coaters
- low-medium plasticizer content rotational moldings and dip moldings with an excellent surface finish

Guide formulations

Wall Covering		
EM2070	$100 \sim 50 \text{ phr}$	
EM3090	0 ~ 50	
DOP	50 ~ 70	
BBP	0~10	
Blowing agent(ADCA)	2~3	
Filler(calcium carbonate)	30 ~ 70	
TiO ₂	10	
Kicker(ZnO)	0.5 ~ 1	
Stabilizer(K/Zn or Ba/Zn)	2~3	
Diluent	as required	

Synthetic leather cloth		
EM2070	100 ~ 50 phr	
EM3090	0 ~ 50	
DOP	$60 \sim 90$	
Epoxy plasticizer	10	
Blowing agent(ADCA)	3	
Filler(calcium carbonate)	30 ~ 50	
Stabilizer(Ba/Zn)	2~3	
Pigment	as required	
Diluent	as required	

