## General properties

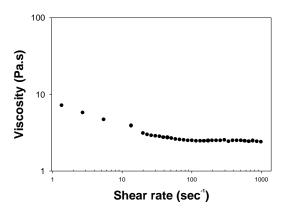
*EM2070* is a fine particle size, medium molecular weight emulsion type PVC homopolymer.

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 properties.

- 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 Ca/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 DINP 60 phr

## Polymer properties

Property	Unit	Typical Value	Test Method
Polymerization degree	-	1150±100	JIS 6721
K-value	-	66.7~70.6	JIS 6721
Apparent density	g/cc	0.20~0.40	JIS 6721
Volatile content	%	Max. 0.35	JIS 6721
Particle size	%	100	100 mesh
			pass
BF viscosity(20rpm)	Pa.s	6.7	ASTM D
Viscosity at 500 sec-1	Pa.s	3.6	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.

# **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 ~ 50 phr	
EM3090	0 ~ 50	
DINP	50 ~ 70	
TXIB	0 ~ 10	
Blowing agent(ADCA)	2 ~ 3	
Filler(calcium carbonate)	30 ~ 70	
TiO <sub>2</sub>	10	
Kicker(ZnO)	0.5 ~ 1	
Stabilizer(K/Zn or Ca/Zn)	2 ~ 3	
Diluent	as required	

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

