

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 polymer exhibit the litche this 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



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Rheological properties

Property	Unit	Typical	Test
())		Value	Method
Polymerization degree	2	1150 ± 50	JIS K 6720-2
K-value	$\frac{2}{2}$	69	DIN 53726
Apparent density	g//cc	0.28±0.07	ASTM D1895
Volatile content	/((Max. 0.39	ASTM D3030
Particle size	%	1/0	100 mesh pass
BF viscosity(20rpm)	Pa.s		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



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.

Hanwha Chemical PVC Paste Resin (Homopolymer)



Beyond Your Dream

EM2070

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 over respectatures.

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

The main applications are

- Iow-medium plasticizer and high friter content chemically blown foam coating for wallpaper and synthetic leather cloth especially in blend with EM3090
- Iow-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
- Iow-medium plasticizer content rotational moldings and dip moldings with an excellent surface finish

Guide formulations

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





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