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Sunshine of the Life

EM3090

Applications

EM3090 produces plastisols which are ideal for the spread coating of chemically blown foams, particularly high expansion-high thickness foams with a very fine closed cell structure at a wide range of oven conditions at medium-high plasticizer levels. It also produces high yield, high viscosity compact coating plastisols without the need to add thickening agents. EM3090 can be applied by rotary screen or comma or transfer spread coating processes, or spraying.

The main applications are

- chemically blown foams of high thickness,
 low density and very fine closed cell structure
- medium-high plasticizer content chemical foam coats for synthetic leather cloth especially in blends with EM2070
- chemically foamed wall-coverings produced by rotary screen or comma or transfer spread coating processes especially in blends with EM2070
- direct or transfer coated compact coats onto wide mesh or net type fabrics especially where high adhesive strength is required
- high yield plastisols for automobile sealant applications applied by airless spray

Guide formulations

Wall Covering		
EM2070	$80 \sim 50 \text{ phr}$	
EM3090	20 ~ 50	
DINP	$60 \sim 70$	
TXIB	0 ~ 10	
Blowing agent(ADCA)	2~3	
Filler(calcium carbonate)	30 ~ 70	
TiO ₂	10	
Kicker(ZnO)	0.5 ~ 1	
Stabilizer(K/Zn or Ca/Zn)	2~3	
Diluent	as required	

Synthetic leather cloth		
EM2070	$80 \sim 50 \text{ phr}$ $20 \sim 50$	
EM3090		
DINP	$60 \sim 90$	
Epoxy plasticizer	10	
Blowing agent(ADCA)	3	
Filler(calcium carbonate)	30 ~ 50	
Stabilizer(Ca/Zn)	2 ~ 3	
Pigment	as required	
Diluent	as required	



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.





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EM3090

PVC Paste Resin (Homopolymer)

General properties

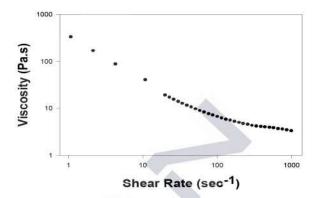
EM3090 is a fine particle size, medium molecular weight emulsion type PVC homopolymer.

It produces plastisol exhibiting high viscosity and yield value at low shear rate and pseudo-plastic flow at high shear rates with medium-high plasticizer level (70-100 phr).

Plastisol made from this polymer exhibit the following properties.

- good foaming properties with a wide range of stabilizers especially liquid K/Zn or Na/Zn type
- ▶ low viscosity aging rate, long shelf life with little tendency to sediment
- good thermal stability with a wide range of standard stabilizers.
- ► fast gelation rate
- semi gloss surface finish

Rheological properties



1 hours aged at 25 °C

Formulation PVC 100 DINP 100 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	ЛS 6721
Particle size	%	100	100 mesh pass
BF viscosity(20rpm)	Pa.s	32	ASTM D
Viscosity at 500 sec-1	Pa.s	4	1824

BF viscosity test conditions:

PVC 100

DINP 100 phr

1 hours aged at 25 °C



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