

Technical Datasheet PVC EM3090

Product Description:

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 pseudoplastic 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

1) 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

2) Typical data:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Polymerization degree	JIS K 6720-2	-	1150±50
K-Value	DIN 53726	-	69
Apparent Density	ASTM D1895	g/cc	0.28±0.07
Volatiles content	ASTM D3030	%	Max 0.30
Particle size	100 mesh pass	%	100
BF viscosity(20rpm)		Pa.s	87
Viscosity at 500 sec ⁻¹	ASTM D1824	Pa.s	4

* Typical values not to be construed as specifications.