

POLYMERS

SABIC[®] PVC 703E

Emulsion Polyvinyl Chloride for Paste Preparation

PRODUCT DESCRIPTION:

PVC 703E is a fine particles, medium - molecular weight PVC homopolymer, made by emulsion polymerization. It is designed for the manufacture of Plastisol exhibiting high viscosity and high yield value at low shear rates with pseudo plastic flow characteristic at high shear rates with plasticizer concentration equal or higher than 70 Phr. Because of the high viscosity of PVC 703E pastes, this resin is recommended primarily for highly plasticized applications. Plastisol made from this resin exhibit the following main properties:

- Low gelation temperature
- Long shelf life, low viscosity ageing
- Little tendency to sediment
- Good thermal stability

Applications:

PVC 703E has been developed especially for making Plastisol of high yield points and high viscosity, without adding thickening agents. PVC 703E Plastisol are ideal for chemical foams of very good quality with very regular closed cell structure, over a large range of oven temperatures. The main applications are:

- Direct or transfer coating onto wide mesh or net-type fabrics made from natural or synthetic fibers.
- Chemical foams with very high thickness, low density and very fine closed cell structure, with or without support.
- Compact or foamed artificial leather of very high softness with medium-plasticizer and high-filler content (vinyl-backed carpets, cushioned vinyl floor coverings).
- Foam-wall covering.

TYPICAL DATA:

PROPERTIES	Unit	Typical Value ⁽¹⁾	Test Method
K-VALUE	-	70	ISO 1628-2
VOLATILE CONTENT	%	Max. 0.3	ISO 1269
BULK DENSITY	Kg/m ³	320	ISO 60
PARTICLE SIZE DISTRIBUTION			
• Retained on 106 um	%	0.001	ISO 1624
• Retained on 63 um	%	1	
PASTE VISCOSITY ⁽²⁾			
• Brookfield@20 rpm	Poise (Pa.s)	600 (60)	ISO 2555/4575
• Servers@90 psi	Poise (Pa.s)	50 (5)	ASTM D - 1823

(1) Typical values; not to be construed as specification limits.

(2) Paste made from 100 parts PVC and 70 parts DOP, measured after one hour aging.

