

Technical Datasheet PVC 703E

1) Product Description:

PVC 703E is a fine particle, medium molecular weight PVC homopolymer, made by emulsion polymerization. It is designed for the manufacture of plastisols exhibiting high viscosity and high yield value at low shear rates with pseudoplastic 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

2) Applications:

PVC 703E has been developed especially for making plastisols of high yield points and high viscosity, without adding thickening agents. PVC 703E plastisols 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.

3) Typical data:

PROPERTY	TEST MOTHOD	UNIT	TYPICAL VALUE*
K-Value	ISO 1628-2	-	70
Volatiles content	ISO 1269	%	Max. 0.3
BULK DENSITY	ISO 60	Kg/m ³	320
Particle size distribution retained on 106 µm retained on 63 µm	ISO 1624	% %	0.001 1
Brookfield@ 20 rpm	ISO 2555/4575	Poise	600
Severs@ 90 psi	ASTM D 1823	Poise	50

* Typical values not to be construed as specifications.