

PVC 702E

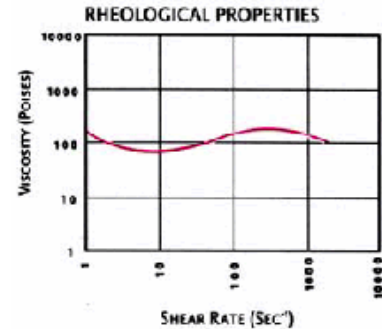
Emulsion - Polyvinyl Chloride

General Properties

PVC 702E is a fine particle, medium - molecular weight PVC homopolymer, made by emulsion polymerization. It is designed for the manufacture of plastisols exhibiting very low viscosity with Newtonian-like flow characteristic with plastizer concentration of (50 – 70) Phr.

Plastisol made from this resin exhibit the following properties.

- Long shelf life, low viscosity aging.
- Little tendency to sediment.
- Easy gelation.
- Easy deaeration.
- Good thermal stability with a range of standard stabilizers.



Property	Unit	Typical Value	Test Method
K-VALUE	-	70	ISO 1628-2
VOLATILE CONTENT	%	Max. 0.3	ISO 1269
METHANOL EXTRACT	%	1.6	ASTM D 2222 ISO 599
PH (AQUEOUS EXTRACT)	-	8.5	ISO 1264
BULK DENSITY	g/cm ³	0.32	ISO 60
PARTICLE SIZE retained on 106 um	%	0.01	ISO 1624
retained on 63 um	%	1	
PASTE VISCOSITY *			
Brookfield@20 rpm	Poise (Pa. s)	100 (10)	ISO 2555/4575
Servers@90 psi	Poise (Pa. s)	150 (15)	ASTM D - 1823

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

NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any warranty of immunity against infringement.

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Applications

PVC 702E is a paste-making resin for general-purpose application.

PVC 702E plastisols may be used for compact coating, especially when clarity is required. They are also recommended for chemically blown, semi-rigid coatings.

The main applications for PVC 702E plastisols are:

- Rotational molding and dip molding for toys, dolls, balls, etc.
- Spreading of chemically blown semi-rigid coatings (upholstery grade leather clothes, cushioned vinyl floor covering, wall covering).
- Spreading of compact coatings (laminated fabrics, tarpaulins, conveyor belts).

Plastisol Preparation

PVC 702E has good mixing characteristics and is easily converted into a paste using either intensive or slow speed mixers. If an intensive mixer is used, overheating during mixing must be avoided since this could lead to unwanted increase in viscosity. After mixing, the plastisol may be sieved, passed through a mill and deaerated. Sieving is always useful to avoid the presence of contamination and coarse particles. The use of a mill is particularly recommended when the paste is intended for a top coat or when a slow-speed mixer has been used.

Packaging and Storage

PVC 702E is delivered in paper bags filled using a filling valve. PVC 702E should be stored dry and away from sources of heat. Pastes should also be stored dry and at moderate temperature (under 38 °C and as near 24 °C as possible), to avoid unfavorable effects on processability.