

POLYMERS

SABIC® PVC 673E

Linear Emulsion – Polyvinyl Chloride

GENERAL PROPERTIES:

PVC 673E is a fine particles, medium-molecular weight PVC homopolymer, made by emulsion polymerization. It is designed for the manufacture of plastisols exhibiting low viscosity at low shear rates with Newtonian flow characteristics at high shear rates with plasticizer concentration of (40-60) Phr. Because of the low viscosity of PVC 673E pastes, this resin is recommended primarily for low plasticized applications (hard plastisol application)..

Plastisol made from this resin exhibit the following main properties:

- Low gelation temperature
- Low plastisol viscosity at low shear
- Low plastisol viscosity at high shear (Newtonian)
- Ability to form stable plastisol at low levels of plasticizer (50 phr DOP)
- Long shelf life, low viscosity aging.
- Little tendency to sediment.
- Good thermal stability with a range of standard stabilizers.

TYPICAL DATA:

PROPERTIES	Unit	Typical Value	Test Method
K-VALUE	-	67	ISO 1628-2
VOLATILE CONTENT	%	Max. 0.3	ISO 1269
BULK DENSITY	kg/m ³	320	ISO 60
PARTICLE SIZE			
• Retained on 106 um	%	0.05	ISO 1624
• Retained on 63 um	%	1.80	
PASTE VISCOSITY ⁽¹⁾			
• Brookfield@20 rpm	Poise	250	ISO 2555/4575
• Servers@90 psi	Poise	50	ASTM D - 1823

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

