



POLYMERS

SABIC® PVC 741E

Emulsion Polyvinyl Chloride for Paste Preparation

PRODUCT DESCRIPTION:

PVC 741E is a fine particles, high molecular weight PVC homopolymer, made by emulsion polymerization. It is designed for the manufacture of plastisols exhibiting low viscosities at low shear rates and slightly dilatant flow characteristic at high shear rates with plastizer concentration of (40 -60) Phr. Plastisol made from this resin exhibit the following properties:

- Long shelf life, low viscosity aging.
- Low plastisol viscosity
- Easy gelation
- No tendency towards settling out.
- High abrasion resistance
- Good thermal stability with a range of standard stabilizers.
- Low percent of oversized particles
- High filler tolerance
- Good drum gelling

APPLICATIONS:

Pastes made from PVC 741E are ideal for compact, clear thin coating, and also for chemically blown spread coatings with low plasticizer content. PVC 741E pastes are particularly suitable for:

- Spread coating of compact layers of low-to medium plasticizer levels having good mechanical properties (conveyer bells, tarpaulins) and good transparency (raincoats, swimming pool liners, tablecloths).
- Spread coating of compact, thin layers made at high speed (wall covering, top coats).
- Spread coating of chemically blown layers with low plasticizer content (handbags, luggage) or With medium-plasticizer and high-filler content (vinyl-backed carpets, cushioned vinyl floor coverings).
- Screen coating of textured foamed wall covering.
- PVC 741E is also suitable for other processes, e.g. rotational molding, slush molding and dipping.

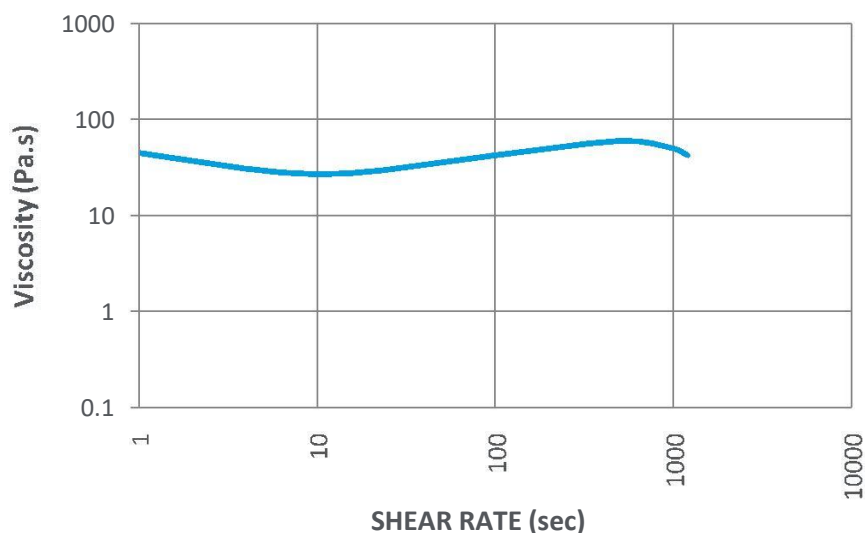
TYPICAL DATA:

PROPERTIES	Unit	Typical Value ⁽¹⁾	Test Method
K-VALUE	-	74	ISO 1628-2
VOLATILE CONTENT	%	Max. 0.3	ISO 1269
BULK DENSITY	Kg/m ³	330	ISO 60
PARTICLE SIZE			
• Retained on 106 um	%	0.01	ISO 1624
• Retained on 63 um	%	0.75	
PASTE VISCOSITY ⁽²⁾			
• Brookfield@20 rpm	Poise (Pa.s)	300 (30)	ISO 2555/4575
• Servers@90 psi	Poise (Pa.s)	450 (45)	ASTM D - 1823

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

(2) Paste made from 100 parts PVC and 40 parts DOP, measured after one hour aging.

RHEOLOGICAL PROPERTIES



PLASTISOL PREPARATION:

PVC 741E is very easily converted into a paste using 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 contamination and the presence of coarse particles. It is particularly recommended that a mill be used when pastes are intended for top coatings, or if a slow speed mixer is used. Deaeration is always necessary to avoid blisters when pastes are intended for top layers, but is unnecessary when plastisols are used for the manufacture of chemically blown foam.

PACKING & STORAGE:

PVC 741E is delivered in paper bags filled using a filling valve. PVC resin should be stored in a manner to prevent a direct exposure to sunlight. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change and inadequate product performance. It is advisable to process PVC resin within 6 months after delivery.

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