

**Arvand Petrochemical Company**  
**PVC E7544 M (Medium Viscosity Paste)**  
**POLYVINYL CHLORIDE (Emulsion)**

**Product Description:**

PVC E75 is a fine particles , high molecular weight PVC homopolymer, made by emulsion polymerization. It is designed for the manufacture of plastisols exhibiting Medium viscosities at low shear rates and slightly dilatant flow characteristic at high shear rates with plasticizer concentration of (40 –60) Phr.

**Features:**

Plastisol made from this resin exhibit the following properties:

- Long shelf life, Medium viscosity aging.
- Medium 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

**Processing and Applications:**

Pastes made from PVC E75 are ideal for compact, clear thin coating, and also for chemically blown spread coatings with low plasticizer content. PVC E75 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 E75 is also suitable for other processes, e.g. rotational molding, slush molding and dipping.

**Typical data:**

| Typical Properties                                        | Units | Value      | Test Method           |
|-----------------------------------------------------------|-------|------------|-----------------------|
| K – Value                                                 |       | 75         | ISO 1628/2            |
| Sieve Analysis >63 $\mu\text{m}$                          | %     | $\leq 1.5$ | ISO 565               |
| Volatile Matter                                           | wt%   | $\leq 0.3$ | ISO 1269              |
| Methanol Extract                                          | wt%   | $\leq 2.5$ | ISO 6427              |
| Residual VCM                                              | ppm   | $\leq 1$   | ISO 6401              |
| Thermostability (min)<br>Mathiss Drying Oven (180 °C )    | min   | >20        | Vinnolit J/28         |
| Paste Viscosity<br>After 1 h (Pas)- (16 S <sup>-1</sup> ) | (Pas) | 5<paste<8  | ISO 11468<br>ISO 3219 |
| Apparent Bulk Density                                     | g/ml  | 0.3 ~ 0.6  | ISO 60                |
| Emulsifire Conteent                                       | -     | medium     | -                     |

Petrochemical Special Economic Zone,  
Site 3, Bandar-e Emam Khomeyni,  
Khuzestan Province, IRAN

 [www.arvandpvc.ir](http://www.arvandpvc.ir)

 [info@arvandpvc.ir](mailto:info@arvandpvc.ir)

 +98 (61) 52 12 65 00



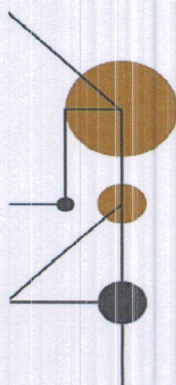
### ***Plastisol Preparation:***

PVC E75 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.

### ***Packaging, Delivery and Storage:***

The product is supplied in 20-kg bags as well as in bulk form. PVC E75 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. Arvand would not give warranty to bad storage conditions which may lead to quality deterioration such as color change and inadequate product performance. ./

Jumbo Bag/Bunker.



Petrochemical Special Economic Zone,  
Site 3, Bandar-e Emam Khomeyni,  
Khuzestan Province, IRAN

 [www.arvandpvc.ir](http://www.arvandpvc.ir)  
 [info@arvandpvc.ir](mailto:info@arvandpvc.ir)  
 +98 (61) 5212 65 00

