

Technical Datasheet PVC 741E

1) 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

2) 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.

3) Typical data:

PROPERTY	TEST MOTHOD	UNIT	TYPICAL VALUE*
K-Value	ISO 1628-2	-	74
Volatiles content	ISO 1269	%	Max. 0.3
BULK DENSITY	ISO 60	Kg/m ³	330
Particle size distribution retained on 106 µm retained on 63 µm	ISO 1624	%	0.01
		%	0.75
Brookfield@ 20 rpm	ISO 2555/4575	Poise	300
Severs@ 90 psi	ASTM D 1823	Poise	450

* Typical values not to be construed as specifications.