Technical Datasheet: PVC 701E

Product Description:

PVC 701E is a fine particle, medium molecular weight homopolymer, made by emulsion polymerization. It is designed for the manufacture of plastisols exhibiting low viscosities at low shear rates and slightly Pseudoplastic flow characteristic at high shear rates with plastizer concentration of more than 50 Phr. Plastisol made from this resin exhibit the following properties:

- Long shelf life, low viscosity aging
- No tendency towards settling out
- Easy gelation
- Good thermal stability with a range of standard stabilizers
- The potential to use high filler loadings

Applications:

Pastes made from PVC 701E are ideal for compact, clear thin coating and also for chemically blown spread coatings with a low plasticizer content. PVC 701E pastes are particularly suitable for:

- Spread coating of compact layers of low-to-medium plasticizer levels having good mechanical properties (conveyor belts, 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 701E is also suitable for other processes, e.g., rotational molding, slush molding and dipping.

Typical data:

Property	Test method	Unit	value
Bulk Density	ISO 60	kg/m³	320
K-Value	ISO 1628-2	-	70
Volatiles content	ISO 1269	% max	0.3
Methanol extract	ISO 599	%	1.7
PH (Aqueous extract) (DOP 60phr)	ISO 1264	-	8.5
Particle size retained on 106 µm retained on 63 µm	ISO 1624	 % %	 0.01 0.75
Brookfield, 20 rpm	ISO 2555/4575	Poise	300
Severs, 500 s-1	ASTM D 1823	Poise	450