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Polyvinyl Chloride

S7106

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K-value: 71

Apparent Density: 490 g/L

Features

- Homopolymer suspension resin
- High molecular weight
- Medium bulk density
- High porosity
- Good processability

Applications

- Food* and industrial packaging film
- Medical * intravenous bags, masks and tubes
- Flexible electrical cable, hose and curtaining
- Flexible footwear and electrical fittings

Additives

- The resin has traces of polymerization additives but needs to be blended to an appropriate application based formulation.

* It remains the responsibility of the manufacturer of the final food or medical article to ensure compliance to appropriate legislation.

Typical properties (not to be construed as specifications)		Value	Unit	Test Method
Physical Properties	K-value	71	-	ISO 1628-2
	Apparent density	490	g/L	ISO 60
	Particle size > 250 µm	< 1.0	%	ISO 4610
	Cold plasticiser absorption	30	%	ISO 4608
	Volatile matter	< 0.3	%	ISO 1269

The data reflected in this table has been obtained from laboratory tests conducted on representative samples of the Sasol PVC S7106 resin. These values are for general guidance only and more detailed information may be obtained by contacting the relevant Account Manager / Technical Specialist.

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Handling

Workers should be protected from the possibility of skin or eye contact with PVC resin containing powders or molten polymer. Safety glasses are suggested as a minimal protection to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be adequately ventilated to carry away fumes or vapours. Please consult the material safety data sheet (MSDS) for more detailed information.

Storage

As ultraviolet light may cause a change in material properties, all resins should be protected from direct sunlight during storage. If stored in cool (<25°C), dry area with low ambient light levels, PVC resins are expected to maintain their original material and processing properties for at least 12 months.

Combustibility

Polyvinyl Chloride resins or compounds will burn when supplied with adequate heat and oxygen. They should be handled and stored away from contact with direct flames and/or other ignition sources. In burning, PVC resins or compounds contribute high heat and generate a dense acidic white smoke. Fires can be extinguished by conventional means with water, water mist being preferred. In enclosed areas, fire fighters should be provided with self-contained breathing apparatus.

Conveying

Conveying equipment should be designed to prevent accumulation of fines and dust particles that are contained in all PVC resins. The fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used:

- be equipped with adequate filters
- is operated and maintained in such a manner to ensure no leaks develop
- that adequate grounding exists at all times

It is further recommended that good housekeeping is practiced throughout the facility.

Regulatory & Legal Compliance

Sasol PVC S7106 suspension resin contains less than 1mg/kg (1ppm) residual vinyl chloride monomer.