

PRODUCT DATA SHEET



PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Polyvinyl Chloride S5718								Technical support: Polymer Technology Services Centre 22 Pressburg Road, Modderfontein, 1645 South Africa Tel: +27 (0)11 458 0700 Fax: +27 (0)11 458 0734				Sales office: Sasol Place PO Box 5486 Johannesburg, 2000 South Africa Tel: +27 (0)10 344 5000 Email: polymers@sasol.com			

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www.sasol.com
K-value: 57
Apparent Density: ≥ 550 g/L

Features

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

Applications

- Complex extruded profiles
- Foamed core pipe extrusion
- Rigid injection moulded fittings
- Thermoformed stationary and non-food packaging
- Not recommended for food and medical applications

Additives

- The resin is additive free and needs to be blended with an appropriate additive formulation before being processed

Typical properties (not to be construed as specifications)		Value	Unit	Test Method
Physical Properties	K-value	57	-	ISO 1628-2
	Apparent density	≥ 550	g/L	ISO 60
	Particle size > 250 µm	< 5.0	%	ISO 4610
	Cold plasticiser absorption	17	%	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 S5718 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 S5718 suspension resin contains less than or equal to 5mg/kg (5ppm) residual vinyl chloride. However it remains the responsibility of the manufacturer of the final article to conduct relevant tests on their product to assure appropriate migration requirements are satisfied.

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