

Chlorinated Poly Vinyl Chloride (C-PVC)

DESCRIPTION

Chlorinated PVC is manufactured by the Photo Chlorination of PVC resin using chlorine.

Two grades namely pipe grade and fitting grade are produced.

CHEMICAL NAME & FORMULA

Poly Vinyl Chloride
(C₂H₄Cl₂)_n

CHEMICAL FORMATION

Resin & Compound

INPUT

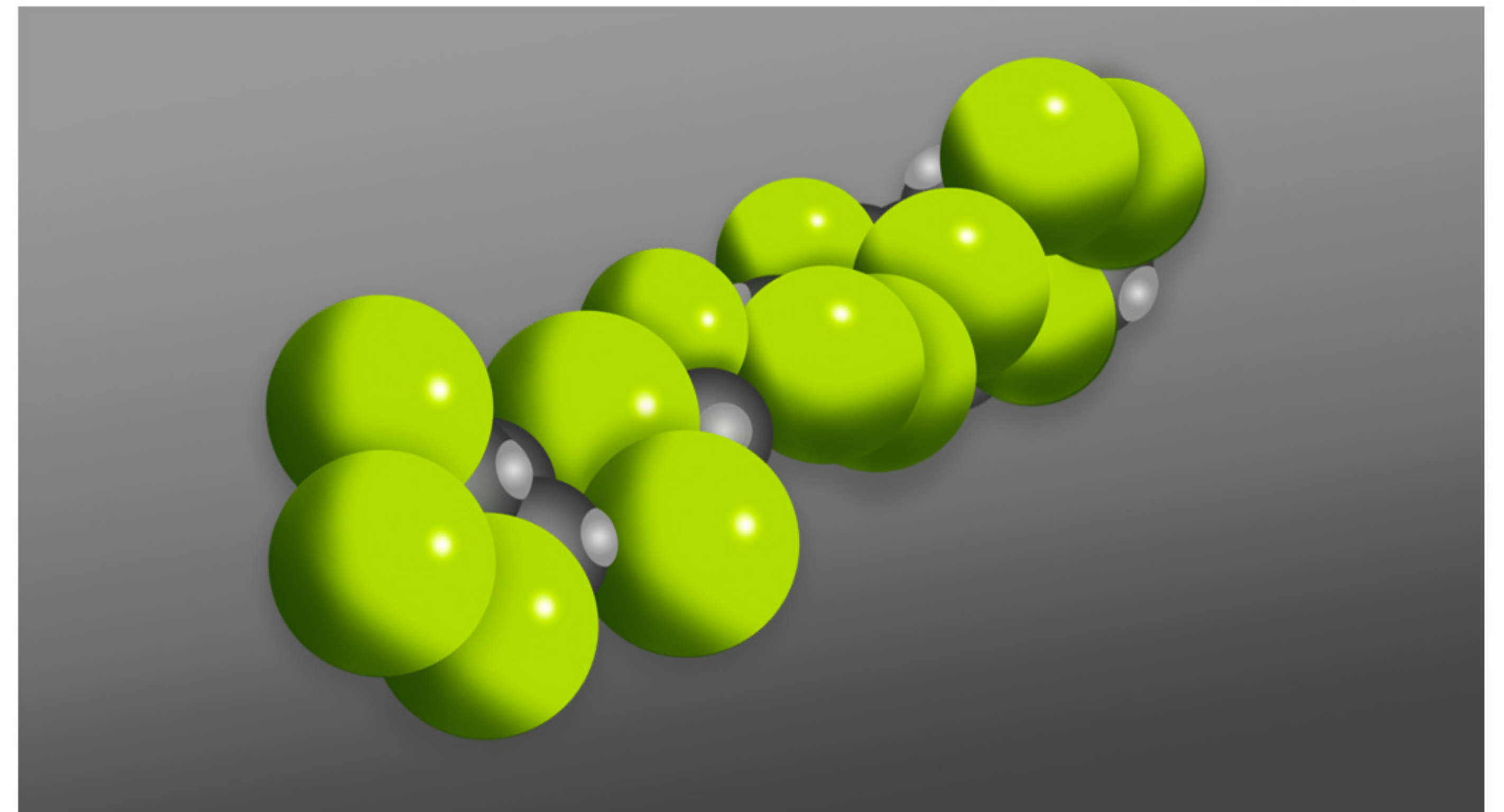
PVC Resin,
Chlorine

OUTPUT

CPVC Resin

APPLICATIONS

Because of the high temperature and pressure withstanding property, it is widely used in the manufacture of pipes and fittings for both, industrial and domestic purposes.



Product Properties

Description	Chlorinated Poly Vinyl Chloride (CPVC) Resin
Appearance	Pale White Powder
Corrosive	Non Corrosive
Flammability	Non Flammable
Solubility	Soluble in Cyclo Hexanone / Dimethyl Acetamide
Boiling Point	NA
Melting/Freezing Point	NA
Specific Gravity	1.6

Product Specifications

Test	Analysis Method	Grade of Resin	
		CPR 057	CPR 067
Chlorine Content, Wt %	LAB-201	66 min.	66 min.
Foreign Matter, Nos/100gms	ISO-1265	20 max.	20 max.
Bulk Density, Gm/Cm ³	ISO-60	0.45 – 0.73	0.50 – 0.67
K-value of PVC Resin used	ISO-1628-2	56 - 59	64 - 67
Specific Gravity	ASTM D 792	1.45 - 1.65	1.45 - 1.65
Vicat Softening Temp at 5Kg load (°C)	ASTM D 1525	103	110
Heat Deflection Temp at 264 Psi (Annealing at 100°C for 24 hours)	ASTM D 648	100 min.	100 min.
Tensile Strength at yield (Mpa)	ASTM D 638	50	50
Tensile Modulus (Mpa)	ASTM D 638	2500	2500
Flexural Strength at yield (Mpa)	ASTM D 790	100 min.	-
Flexural Modulus (Mpa)	ASTM D 790	3,000 min.	-
Notched Izod Impact Strength (J/m)	ASTM D 256	80 min.	267 min.

Related Information

PACKAGING & HANDLING

Material is packed in 25kg capacity HDPE woven bags inserted with LDPE liner.

TRANSPORT CLASSIFICATION

CAS No. 68648-82-8

PRODUCT USAGES

Pipe Industry
& Sanitary fittings.



Product Safety Data

Name of Product	Chlorinated Polyvinyl Chloride Resin
Composition / Components	Long chain polymer comprising plenty of VCM molecules and Chlorine
Hazard Identification	Non Hazardous
First Aid Measures	<p>Eye: Flush with water for at least 15 minutes. Do not rub eyes. If irritation develops, consult physician.</p> <p>Skin: Wash affected area with soap water. If irritation persists, get medical attention.</p> <p>Ingestion: Practically inert. If ingested, dilute swallowed material by drinking water and induce vomiting.</p>
Measures For Fire Fighting	Not Flammable
First Aid Measures In Case Of Unintentional Release	Remove sources of ignition, use adequate ventilation and wear a dust respirator. Sweep or vacuum up or shovel.
Handling & Storage	Use with adequate ventilation. Avoid contact with eyes and skin. As with handling of all powdered materials, accumulation of product should be removed from settling areas to prevent any secondary potential dust explosion or fire hazards. Under normal thermoplastic processing, always use product under well-ventilated conditions to minimize breathing of vapour generated. Store in cool, dry, well-ventilated area or silo, away from sources of heat, flame and sparks.
Exposure Limit & Staff Protection Equipment	Use goggles or face shield for protection against dust. Minimize contact with skin and wear gloves or long sleeved clothing. Do not eat, drink or smoke in work area.
Physical & Chemical Properties	Pearl white powder without odour. Normally inert for all practical applications. Insoluble in water and soluble in Dimethyl Acetamide.
Stability & Reactivity	Stable. Avoid elevated temperature. If burnt, will generate Carbon Dioxide, Carbon Monoxide and Hydrogen Chloride.
Information Of Toxicology	Non-toxic. Inhalation may irritate and cause discomfort in nose and throat.
Information About Waste Disposal	May be disposed off safely by ordinary landfill or by incineration under State and local control regulations.
Information About Transport	No specific requirements. Transportable in Trucks in HDPE bags
Statutory Regulatory Information	Shipping Name: CPVC Resin / Compound
Other Information	CAS No. 68648-82-8