聚氯乙烯 (PVC)

Polyvinyl Chloride (PVC)

产品简介

聚氯乙烯 (PVC) 是以氯乙烯单体经聚合反应而制得的线型热塑性合成树脂。氯乙烯单体的合成路线按原料不同分为电石路线和石油路线。中国石化聚氯乙烯产品采用日本信越悬浮法聚合工艺和美国西方化学悬浮法聚合工艺制得的。产品具有良好的耐化学腐蚀性、电绝缘性和化学稳定性;由于含氯量高,具有很好的阻燃性和自熄性;产品易于成型加工,可以采用挤出、注塑、压延、吹塑、压制、铸塑及热成型等多种成型方法进行加工。

产品用途

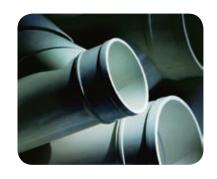
聚氯乙烯是应用最广泛的热塑性树脂之一,可以制作强度和硬度高的硬质制品如管材、管件、门窗等异型材和包装片材,也可以加入增塑剂制作非常柔软的制品如薄膜、片材、电线电缆、地板、合成革等。

Overview

Polyvinyl Chloride (PVC) is a linear thermoplastic resin produced by polymerization of vinyl chloride monomer. Due to the difference of raw materials, there are two methods of synthesizing vinyl chloride monomer — calcium carbide process and petroleum process. Sinopec PVC adopts two suspension process, respectively from Japanese Shin-Etsu Chemical Company and American Oxy Vinyls Company. The product has good chemical corrosion resistance, excellent electrical insulation property and fine chemical stability. With high chlorine content, the material has good fire retardance and self-extinguishing properties. PVC is easy to process by extrusion, injection molding, calendering, blow molding, compressing, cast moulding and thermal molding, etc.

Applications

PVC is one of the most widely used thermoplastic resins. It can be used to make products with high hardness and strength, such as pipes and fittings, profiled doors, windows and packaging sheets. It can also make soft products, such as films, sheets, electrical wires and cables, floorboards and synthetic leather, by addition of plasticizers.





主要生产企业及工艺列表

Manufacturers and Processes

生产企业 Manufacturer	所在地 Location	产能 (万吨/年) Design Capacity (10,000 Tons/a)	工艺技术	企业认证 Certifications	
			Processes	质量管理体系 Quality	HSE管理体系 HSE
齐鲁分公司	淄博 Zibo	23	日本信越悬浮法聚合工艺 Suspension Process of Japan Shin Etsu Chemical	ISO 9001	GB/T 19001-2000 GB/T 24001-2004 GB/T 28001-2001
Qilu Petrochemical		37	美国OxyVinyIs悬浮法聚合工艺 Suspension Process of US OxyVinyIs	130 9001	

产品包装及贮运要求

输工具, 防止雨淋。

产品采用牛皮纸涂PP编织物复合袋包装或采用内涂塑PP编织布外袋、LDPE袋包装或散装,小包装净重25Kg/袋、大包装净重1250Kg/袋、1000Kg/袋、600Kg/袋或500Kg/袋。 产品应存放在通风、干燥的仓库内,远离火源,不得露天

堆放, 防止日晒和受潮。产品运输时必须用洁净有蓬的运

Package, Storage and Transportation

The resin is packaged in compound bags of kraft paper and coated PP woven material, or internally coated PP woven cloth exterior bags with LDPE interior bags, or packaged in bulk. The net weight of small package is 25Kg per bag and that of large package is 1250Kg, 1000Kg, 600Kg or 500Kg per bag.

The resin should be stored in well-ventilated and dry warehouses against fire, sunlight and dampness, and should not be piled up in the open air. Clean and covered transportation vehicles should be used for transportation to prevent from rain.





主要产品牌号性能指标典型值(非保证值)及用途

Grades, Typical Values (Not Warranted Values) and Applications

Cardior		产品牌号		22.22	2	00.000	
Average Degree of Polymerization	Grades			QS-650	S-700	QS-800F	
Page	Average Degree of Polymerization			600 – 700	650 – 750	600 – 700	
Voication				0.53 - 0.60	0.52 - 0.62	0.53 - 0.60	
Plasticture Absorption	Volatiles		%≤	0.4	0.3	0.4	
Beal Post	Plasticizer Absorption		g≽	15	14	15	
Fish Eyes	Residual VCM		mg/kg≤	5	5	5	
Mesh No.80mm Profile No.80mm Profile No.80mm No.80			个/400cm ²	30	30	30	
Residue		筛余物 Mesh		2	2	2	
Number of Impurity Particles 自民(160°C, Clomin后) Whiteness (160°C, after 10min) **** *** *** *** *** *** ***			%≽	95	95	95	
上型用途 Applications	Number of Impurity Particles		↑ ≤	20	20	20	
业技术核标为图则性型材 rection Molforing Materials, Piger Park Rection Profiles Bellows, Applications Applications			%≽		75	78	
Certifications	主要用途 Applications			型材、楼板材挤出刚性型材 Injection Molding Materials, Pipes Materials, Calendering Materials, Rigid Foaming Profiles, Building	衬里硬膜、电器零件、汽车零件 Half-rigid Sheet, Plates, Floor Materials, Linning Epidural, Parts of Electric	薄膜和板材 Extrusion Materials, Electric Wires, Cable Materials, Soft Films and	
### Amulacturers				_	ROHS	FDA/ROHS	
Y	生产企业						
Average Degree of Polymerization 表现密度 g/ml 0.48 – 0.58 ≥0.49 0.51 – 0.57 探发物				S-1000	QS-1000F	QS-1050P	
表现密度	Averag		erization	970 – 1070	950 – 1050	1000 – 1100	
Volatiles Vo	表观密度 Bulk Density 挥发物			0.48 – 0.58	≥0.49	0.51 – 0.57	
Plastictzer Absorption of 100g resin g≥ 20 24 21			%≤	0.3	0.3	0.3	
Besidual VCM	Plasticizer Absorption of 100g resin 残留VCM		g≽	20	24	21	
Fish Eyes . pcs/1520cm2 Fish Eyes pcs/1520cm2			mg/kg≤	5	5	5	
Mesh 0.063m筛孔 Mesh 0.063mm Mesh				20	20	20	
Residue			%≤	2	2	2	
Number of Impurity Particles 白度(160°C,10min后) Whiteness (160°C,after 10min) *** *** ** ** ** ** ** ** **			%≽	95	95	95	
Whiteness (160°C , after 10min) Applications			↑≤	16	16	16	
上要用途 Applications片材、人造革、管材、型材、波纹 管、电缆保护管、包装薄膜 Sheets, Artificial Leathers, Pipes Materials, Profiles, Bellows, Cable Protective Pipes, Packaging Films板材、压延料、管材压膜工具、 电线和电缆绝缘料 Sheets, Calendering Materials, Pipes Calendering Tools, Insulating Materials of Wires and CablesIrrigation Pipes, Drinking Water Tubes, Foam-core Pipes, Sewer Pipes, Wire Pipes, Rigid Profiles产品认证 CertificationsROHSFDA/ROHSROHS生产企业齐鲁齐鲁齐鲁			%≥	78	80	80	
Certifications April 10 months 生产企业 齐鲁	(1	主要用途 Applications		管、电缆保护管、包装薄膜 Sheets, Artificial Leathers, Pipes Materials, Profiles, Bellows, Cable	电线和电缆绝缘料 Sheets, Calendering Materials, Pipes Calendering Tools, Insulating	污水管、电气穿线管、刚性型材 Irrigation Pipes, Drinking Water Tubes, Foam-core Pipes, Sewer	
	Certifications						
		井立人川		齐 鱼		文鱼	