

Homopolymers

About our products

Shin-Etsu offers a full line of Polyvinyl Chloride resins speciality designed to meet the customer's needs.

The resins range from TK-500 to TK-1300 and cover the spectrum of PVC applications listed below.

The consistent superior quality of Shin-Etsu resins allows the processor to attain high operating performance in terms of both production rates and cost-efficiency, as well as uniformity of their own products.

Item	K-Value	Polymerization Degree	Apparent Density	Practicle Size		Volatille Matter	Suggested Applications
Unit	—	—	g/ml	%		%	—
Grade	JIS K7367-2 ISO 1628-2	JIS K6720-2	JIS K7365 ISO 60	Through 300 μ m (48-Mesh)	Through 75 μ m (200-Mesh)	JIS K7382 ISO 1269	
TK-500	52	520	0.60	100	10 >	0.5 >	[Rigid] These PVC resins are recommended for rigid injection molding such as PVC pipe fittings, electric parts, blow molding, rigid calendered sheet, extruded film and profiles.
TK-600	56	630	0.59	100	10 >	0.5 >	
TK-700	58	690	0.60	100	10 >	0.5 >	
TK-800	61	790	0.58	100	10 >	0.5 >	
TK-1000	67	1030	0.55	100	5 >	0.5 >	[Rigid/Flexible] This PVC resin is recommended for PVC compound, pipe, conduit, sheet and profiles. It is also recommended for calendered film and sheet, rigid and flexible extrusion, wire and cable applications.
TK-1300	72	1300	0.52	100	5 >	0.5 >	[Flexible] These PVC resins are recommended for extruded packaging film and sheet, calendered film and sheet, flexible extrusion, wire and cable applications.
TK-1400	73	1400	0.49	100	5 >	0.5 >	

※The above Polymerization degree and inherent viscosity were converted from K-Value measured by Shin-Etsu.

High-molecular-weight PVC

About our products

Shin-Etsu's high-molecular-weight PVC TK2500 series is a homopolymer of Vinyl Chloride with unique physical properties. This polymer is now widely accepted in the fields of flexible PVC and rubber products. Since it provides elasticity to flexible PVC, this polymer is not only used for improved-quality PVC products, but also as a replacement for natural or synthetic rubber products.

Item	K-Value	Polymerization Degree	Apparent Density	Practicle Size		Volatille Matter	Suggested Applications
Unit	—	—	g/ml	%		%	—
Grade	JIS K7367-2 ISO 1628-2	JIS K6720-2	JIS K7365 ISO 60	Through 300 μ m (48-Mesh)	Through 75 μ m (200-Mesh)	JIS K7382 ISO 1269	
TK-1700E	77	1700	0.45	100	5 >	0.5 >	•Automobile Industry 1) Dust protection covers for shift lever and accelerator 2) Pad for brake pedal, clutch pedal, door-handle grip and footrest for motorcycle 3) Window sealing strips and container-door packing 4) Headrest and armrest •Construction Industry 1) Water protection sheet and curtain wall 2) Floor finish for poolside and gymnasium 3) Industrial hose such as pressure hose, water hose, etc. •Electric Industry 1) Washing machine damper and bellows 2) Cable with high performance like cold weather, heat resistant, abrasion resistant and oil resistant •Other applications 1) Hose and tube for cold places, ships, etc. 2) Shower hose, hot-water hose and hose for food industry 3) Shoe soles for mountaineering boots, ski-pole grip, etc.
TK-2000E	80	2000	0.49	100	5 >	0.5 >	
TK-2500LS	82	2250	0.48	100	5 >	0.5 >	
TK-2500HS	84	2450	0.46	100	5 >	0.5 >	
TK-2500PE	88	3000	0.47	100	5 >	0.5 >	

※The above Polymerization degree and inherent viscosity were converted from K-Value measured by Shin-Etsu.

GR-PVC (PVC Resin for Matt Surface Products)

About our products

GR-PVC provides translucent or opaque products with a matt surface. PVC products made in this GR series are also superior in thermal stability, elasticity and abrasion resistance.

Item	Apparent Density	Practicle Size	Volatille Matter	Suggested Applications
Unit	g/ml	%	%	—
Grade	JIS K7365 ISO 60	Through 300 μ m (48-Mesh)	JIS K7382 ISO 1269	
GR-800T	0.53	100	0.5 >	•Non-glossy electric cable insulation •Gasket or packings for automobiles, electronic apparatus, etc. •Anti-blocking or slippery surface film •Translucent plate and bottle •Hose
GR-1300T	0.48	100	0.5 >	
GR-1300S	0.51	100	0.5 >	
GR-2500S	0.45	100	0.5 >	