



Formosa Plastics®

Formolon® Polyvinyl Chloride Suspension PVC Products

Quality, Value and Performance

Discover Formolon® Suspension Polyvinyl Chloride (PVC) Compounds and Resins

When success is essential, Formosa is your quality choice.

Formosa Plastics Formolon® Suspensions PVC compounds and resins are some of the most versatile products in the market. They can produce everything from rigid pipes to flexible films. They can produce smooth textures for windows and fencing to grain-like textures for decking or luxury vinyl tiles.

As a leading global resin manufacturer, Formosa Plastics works actively to develop resins for tomorrow's application requirements. With operations in Point Comfort, Texas and Baton Rouge, Louisiana, we are able to service our global customer base.



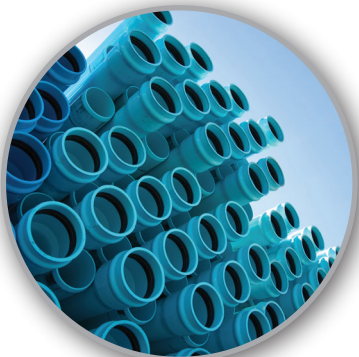
Formolon® Suspension Products

Suspension Compounds

Suspension Resins

Suspension Resin Properties and Attributes

- Medium-low molecular weight resins
- Low gels
- Exceptional early color heat stability
- Low fines level suitable for rigid dry blends
- Outstanding lot-to-lot consistency
- Wide range of inherent viscosities ranging from 0.68 to 1.1
- K-values ranging from 56 – 73
- ISO 9001 and ISO 14001 certified manufacturing



Major End-Use Applications

- Pipes
- Siding
- Fencing
- Decking
- Luxury Vinyl Tile
- Windows
- Flexible Films
- Wire and Cable
- Profiles
- Medical Films
- Meat Overwrap
- Foamed Sheet

Formolon® Suspension Resins

Properties	Units	Test Method
Relative Viscosity		
Inherent Viscosity		ASTM D5225
K-value		
Volatiles	%	ASTM D6980
Bulk Density	lbs/ft ³	ASTM D1895
	g/cc	ASTM D1895
Sieve Analysis		Malvern
% thru 40 Mesh		
% thru 200 Mesh		
Residual VCM (ppm)		GC Head Space Method
Contamination Count	OCS per 100g	OCS per 100g
Gel Count		GP Gel Method
Description		
Applications		

Suspension Polyvinyl Chloride (PVC) Compounds and Resins

Products & Technical Specifications



Formosa Plastics®

Formolon® Suspension Compounds

Properties	Units	Test Method	Window Profile Series	GP Compound Series	Homopolymer/Compounds	Homopolymer/Compounds
			APW	AWS	AW02	AW04
Izod Impact, 1/8" Specimen, @23C,	ft.-lbf/in. of notch	ASTM D256	20	3		
Impact Strength	ft.-lbf/in.	ASTM D256			1.09	1.10
Tensile Yield Strength, (PSI)	psi	ASTM D638	6,150	6,000	7,200	7,200
Tensile Modulus, (PSI)	psi	ASTM D638	400,000	350,000	426,000	410,000
Flexural Yield Strength, (PSI)	psi	ASTM D790	10,000	10,000		
Flexural Modulus, (PSI)	psi	ASTM D790	350,000	350,000		
Heat Deflection Temperature Under Load	°F	ASTM D648	163.4	159.8	165.0	169.0
Drop Dart Impact, C-125 Impactor						
@23°C	in-lb/mil	ASTM D4226	2.2			
@0°C	in-lb/mil		2.0			
Description			NSF approved MMW dry blend compound with excellent stability for consistent whiteness	Powdered compound for profiles	NSF approved MMW dry blend PVC compound with excellent stability for consistent whiteness	NSF approved MMW dry blend PVC compound with excellent stability for consistent whiteness
Applications			Profile extrusion of window lineals, fencing & other outdoor weatherable applications	Profile extrusion of indoor and non-weatherable applications	Rigid extrusion	Rigid extrusion



General Purpose	General Purpose	General Purpose	Pipe Grade	Rigid Extrusion	Film Extrusion	Siding Grade	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose
608	614	616K	622	622E	622F	622S	622R	676 / 676H	680/680H	685	690
1.81	1.88	1.96	2.19	2.15	2.20	2.15	2.01	2.27	2.37	2.37	2.51
0.68	0.73	0.79	0.92	0.90	0.93	0.90	0.81	0.95	1.02	1.02	1.09
56	58	61	66	65	67	65	62	68	70	70	73
0.20	0.20	0.20	<0.30	0.30	0.20	0.30	0.20	0.20	0.20	0.20	0.20
36	35	34	35.6	35.0	32.0	36.0	34.0	32.0	32.0	32.0	31.0
0.57	0.56	0.55	0.57	0.56	0.52	0.58	0.56	0.52	0.51	0.52	0.50
99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
5.0	5.0	6.0	3.0	4.0	5.0	3.0	6.0	4.0	4.0	3.0	4.0
<1.0	<1.0	<1.0	1.0	2.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0
20.0	20.0	20.0	40.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
-	-	-	-	-	20.0	-	-	10.0	10.0	16.0	10.0
Low molecular weight (LMW) homopolymer with low gels and excellent early color stability	Medium-low molecular weight homopolymer with low gels and excellent early color stability	Medium-low molecular weight homopolymer with low gels and excellent early color stability	Medium-low molecular weight homopolymer with excellent dry flow characteristics	Medium-low molecular weight homopolymer with excellent dry flow characteristics	Medium molecular weight (MMW) homopolymer with excellent dry flow characteristics	Medium-low molecular weight homopolymer with excellent dry flow characteristics	Medium-low molecular weight low gels and early color heat stability	Medium-low molecular weight low in gels	Designed for processing powder blends due to its ability to rapidly absorb plasticizers	Suited for processing powder blends due to its ability to rapidly absorb plasticizers regardless of MW	Suited for processing powder blends due to its ability to rapidly absorb plasticizers regardless of MW
Injection molding, rigid calendering, bottles and flooring	Injection molding, rigid calendering, bottles, rigid foam profile and rigid sheet	Rigid calendering, rigid foam profiles and bottles	Pipe and conduit	Siding, pipe and conduit	Flexible and rigid film, wire and cable	Siding, calendering, film, rigid profile, pipe and rigid expanded profiles	Rigid and flexible calendering, rigid foam profile and bottles	Calendering, blown flexible films, medical, wire and cable, and meat wraps* (*676H only)	Flexible calendering, extrusion, medical, blown films and meat wraps* (*680H only)	Flexible extrusion, wire and cable, meat wrap and blown film	Flexible calendering, extrusion and wire and cable

Our Commitment

Formosa Formolon® polyvinyl chloride quality and consistency, together with our technical service, provide excellent value and produce components that consistently perform as required.

- **Quality and Consistency** – We will deliver resins that meet or exceed customers' requirements.
- **Performance** – Help customers produce consistent, valued components that perform to specifications for durability, appearance and safety.
- **Value** – Provide excellent per unit component value – from resin grade selection, purchase and delivery to optimized processability and final component production.
- **Technical Service** – Provide top-notch, responsive technical service that develops prompt, accurate solutions.

Your Partner for Polymer Solutions

With corporate headquarters in Livingston, New Jersey, Formosa Plastics Corporation, U.S.A. owns and operates two vertically integrated chemical manufacturing subsidiaries located in Baton Rouge, Louisiana; and Point Comfort, Texas. Through affiliated facilities located in Ningbo (China), Mailiao (Taiwan) and Linyuan (Taiwan), we can meet international demands.

Our business operations include the production of polyethylene, polypropylene, suspension and dispersion polyvinyl chloride, chlor-alkali and olefins.

For more information about Formosa Plastics' products or to discuss a custom application for a no obligation quote, visit www.fpcusa.com or speak with your company representative directly by calling **888.372.8723**.

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