Hylar® Latex 932

Polyvinylidene Fluoride

Solvay Specialty Polymers

Message:

Hylar 5000 is crystalline, high molecular weight, powdered polyvinylidene fluoride, which is specially used for solvent-based coatings to obtain better gloss. The formed film with high mechanical strength and good toughness can adapt to applications in a wide temperature range. These films are resistant to most environments, including gamma radiation. It is basically transparent under ultraviolet radiation. The weather resistance of Hylar 5000 coatings makes them have excellent durability. Hylar 5000 can only be obtained through specific licensing procedures indicating the composition of Hylar 5000 coatings. The properly formulated topcoat contains enough pigment to be completely opaque under ultraviolet radiation when the film thickness reaches the nominal 1 mils (0.001 inches). Safety
hylar 5000 remains stable at temperatures up to 600 °F (316 °C). When it is at a high temperature above 600 ° F(316°C) for a long time, hydrogen fluoride (HF) is released. When the temperature is higher than 700 ° F (371°C), the release speed increases. Hylar 5000 has excellent flame retardancy, but HF and trace amounts of potentially toxic fluorocarbons begin to form when a fire occurs. HF is corrosive and can cause contact burns, reaching the threshold (TLV -TWA)3 ppm (2.5 mg/m3) set by the American Industrial Hygiene Conference (AC GIH)(1984).

General Information			
Features	Pure/High Purity		
	High molecular weight		
	Highlight		
	Crystallization		
	Anti-gamma radiation		
	Good UV resistance		
	Good strength		
	Good weather resistance		
	The smell is low to none		
	Good toughness		
Uses	Films		
	Coating application		
Appearance	White		
Forms	Latex		
Processing Method	Coating		
Physical	**Nominal Value**	**Unit**	
pH	3.0 - 4.0		
Solid content-Latex	20.0 - 25.0	wt%	
Particle size-Latex	200 - 400	nm	
Brokfield viscosity-#1 Spindle, 60 rpm	2 - 6	mPa·s	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature [1]	156 - 160	°C	ASTM D3418
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity [2] (232°C, 100 sec^-1)	2900 - 3300	Pa·s	ASTM D3835
Additional Information			

SAFETYThe dry polymer in Hylar® Latex 932 is stable at temperatures up to 315°C (600°F). When subjected to temperatures above 315°C (600°F) for extended periods of time, hydrogen fluoride (HF) begins to evolve. At temperatures above 371°C (700°F), HF evolution becomes rapid.Thermal decomposition of the dry polymer in Hylar® Latex 932 can occur in melt processing operations as a result of excessive temperatures or in coating applications should the solvents be ignited, leading to fire. Thermal decomposition will generate HF, which is corrosive and causes burns on contact. It has an American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV-TWA) of 3 ppm (2.5 mg/m3). In case of fire, use NIOSH approved self-contained breathing apparatus and skin protection to protect against volatile decomposition products such as HF and traces of toxic fluorocarbons.In the event of thermal decomposition during melt processing operations, turn off the heat and evacuate the area until the area is cleared of HF. The dry polymer in Hylar® Latex 932 can be disposed of in an approved land fill. It should not be incinerated unless provision is made for absorption of HF. A Material Safety Data Sheet for Hylar® Latex 932 is available from Solvay Specialty Polymers.SHELF LIFEAlthough we do not warrant a shelf life period, we believe that the practical limit shelf life of the material is 9 months from the production date, provided that the recommended storage conditions are maintained and the material remains free from foreign contamination during storage time.STORAGE CONDITIONS (RECOMMENDED)The material should remain un-opened in the original containers. The storage conditions should provide for protection from temperature extremes (75°F) and other conditions which may damage the containers in which the material is stored. Some settling may occur during storage; this should be reversible by agitation or rolling and should not affect the overall specifications as warranted.

NOTE	
1.	Melting temperature of a dried polymer
2.	Melt Viscosity of Dry Polymers

Recommended distributors for this material

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