

Hylar® Latex 932

Polyvinylidene Fluoride

Solvay Specialty Polymers

Описание материалов:

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).

Главная Информация			
Характеристики	<p>Чистый/высокая чистота</p> <p>Высокая Молекулярная масса</p> <p>Подсветка</p> <p>Кристаллизация</p> <p>Антигамма-излучение</p> <p>Хорошая устойчивость к ультрафиолетовому излучению</p> <p>Хорошая прочность</p> <p>Хорошая устойчивость к погоде</p> <p>Низкий запах</p> <p>Хорошая прочность</p>		
Используется	<p>Пленка</p> <p>Нанесение покрытия</p>		
Внешний вид	Белый		
Формы	Латекс		
Метод обработки	Покрытие		
Физический	Номинальное значение	Единица измерения	
РН	3.0 - 4.0		
Твердое содержание-Латекс	20.0 - 25.0	wt%	
Размер частиц-Латекс	200 - 400	nm	
Вязкость брокфилда-#1 шпиндель, 60 об/мин	2 - 6	mPa·s	
Тепловой	Номинальное значение	Единица измерения	Метод испытания
Температура плавления ¹	156 - 160	°C	ASTM D3418

Анализ заполнения	Номинальное значение	Единица измерения	Метод испытания
Melt Viscosity ² (232°C, 100 sec ⁻¹)	2900 - 3300	Pa·s	ASTM D3835

Дополнительная информация

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

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