

Torlon® AI-10 LM

Polyamide-imide

Solvay Specialty Polymers

Описание материалов:

Torlon® AI-10 LM is a polyamide-imide (PAI) powder developed for the performance coatings industry. It is similar to Torlon® AI-10 in that it is produced using the same monomers and polymerization system. However, the manufacturing process has been optimized to reduce the amount of residual methylene dianiline (MDA) monomer to below the 1000 ppm action level specified in various hazard communication regulations.

Torlon® AI-10 LM can be substituted for Torlon® AI-10, without any changes in formulation or process. Coatings based on the Torlon® AI-10 or AI-10 LM polymer yield durable, abrasion resistant, thermally stable films. The resin has superior resistance to organic solvents and a wide array of other commercial and industrial chemicals.

Главная Информация

Характеристики	Хорошая стойкость к истиранию Хорошая адгезия Хорошая химическая стойкость Теплостойкость, высокая Водорастворимый Огнестойкий
Используется	Нанесение покрытия Клей
Соответствие RoHS	Свяжитесь с производителем
Внешний вид	Желтый
Формы	Порошок
Метод обработки	Лечение раствора Покрытие

Физический	Номинальное значение	Единица измерения
Содержание твердых веществ	92	%
Кислотная ценность	82.00	mg KOH/g
Вязкость ¹ (23°C)	850	mPa·s

Дополнительная информация

Solubility Torlon AI-10 LM resin is supplied as a powder that is readily dissolved in N-methyl pyrrolidone (NMP) and other aprotic solvents. Other organic solvents may be used as diluents to reduce viscosity at lower cost. N-methyl pyrrolidone is hydrophilic, and as such, retains considerable amounts of water. Adding non-polar diluents may be appropriate to aid in the application process and to prevent potential formulation and shelf stability issues. Pigments and Additives Pigments and additives can be used with Torlon AI-10 LM polymer to produce special purpose coating and adhesive formulations. Suitable additives include heat-stable organic and inorganic pigments, fillers and certain epoxy and fluoropolymer copolymers. Due to the inherent color of Torlon AI-10 LM polymer, care must be taken if white or very pale shades are to be successfully formulated. To prevent the absorption of unwanted moisture, all pigments should be ground in closed milling equipment. Likewise, hygroscopic additives, such as fibers and copolymers, should be dried to appropriate moisture levels prior to being incorporated into the formulation. Application. Depending on the aesthetic and performance characteristics required, uniform coatings can be applied by spray, roll, spin or curtain techniques. Usually, dry film thicknesses from 10-20 µm are readily achieved in a single coating pass, with multicoat systems affording the opportunity for additional surface build. Regardless of the method employed, it is essential to assure appropriate preparation of the substrate prior to application of coating. Once complete, application equipment should be purged of coating and cleaned with a true solvent. Drying/Curing Coatings based upon Torlon AI-10 LM resin dry and initiate cure at temperatures as low as 150°C (300°F). However, optimal film properties result after heating for 5 to 20 minutes, depending on the film thickness and the formulation, at 250°C (480°F). In the case of multi-coat systems, an intermediate temperature step at around 200°C (390°F) for 10 minutes may be advisable. For coating formulations employing low solids, a brief flash off period of about 3 to 10 minutes may be recommended prior to initiating cure.

NOTE

1. 25%, NMP

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