

Solvay Specialty Polymers Torlon® AI-10 LM Polyamide-imide (PAI) (Unverified Data**)

Category: Polymer, Thermoplastic, Polyamide-imide (PAI), Polyamide-Imide, Extruded

Material Notes:

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 Al-10 LM can be substituted for Torlon Al-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. Additional Information: 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 Al-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 Al-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. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Torlon-AI-10-LM-Polyamide-imide-PAI-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Solids Content	92 %	92 %	
Viscosity	850 cP	850 cP	25% in NMP
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Descriptive Properties	Value	Comments
Acid Number	82 mg KOH/g	



Descriptive Properties	Vellow Value	Comments		
Availability	Africa & Middle East	Africa & Middle East		
	Asia Pacific			
	Europe			
	North America			
	South America			
Features	Flame Retardant			
	Good Abrasion Resistance			
	Good Adhesion			
	Good Chemical Resistance			
	High Heat Resistance			
	Water Soluble			
Forms	Powder			
Generic	PAI	PAI		
Processing Method	Coating			
	Solution Processing			
Uses	Binder	Binder		
	Coating Applications	Coating Applications		

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