

Solvay Specialty Polymers Torlon® 4000T Polyamide-imide (PAI) (Unverified Data**)

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

Material Notes:

Torlon 4000T is a neat resin polyamide-imide (PAI) coarse powder designed for compounding with other polymers and specialty additives. It is the base resin utilized in all Torlon injection molded compounds. Its powder form enables designers to enhance custom compounds and specialty applications with the well-known properties of Torlon polyamide-imide, from its unstoppable performance under extreme conditions to excellent resistance against wear, creep and chemicals. A fine-particle powder version, Torlon 4000TF, is also available, which is particularly well suited for compression molded parts. A water soluble analog of Torlon 4000T is available as Torlon AI-50. Torlon 4000T has been shown to be useful in blends with polyphenylsulfone (PPSU), polyethersulfone (PES), polysulfone (PSU), polyetheretherketone (PEEK), high-temperature sulfone resins, self-reinforced polyphenylene, polybenzimidazole (PBI), polyimide (PI), polyetherimide (PEI), and polyphenylene sulfide (PPS). Besides blending with other polymers to enhance properties, Torlon 4000T powder may be compounded with a wide variety of performance fillers, reinforcements, specialty additives and colorants to meet the desired need. The resultant compound may then be injection molded or extruded into film, shapes or fiber. In addition to molded components, Torlon PAI powders are suitable for use in other high performance forms. For example, these powders are soluble in dipolar aprotic solvents such as N-methyl pyrrolidone (NMP), dimethylacetamide (DMAC), dimethylsulfoxide (DMSO) and dimethylformamide (DMF). Solutions of these systems can be sprayed into coatings, cast into films, spun into fibers and cast or spun into specialty membranes. High strength, high temperature capable adhesives can be also formulated from Torlon PAI powders. Torlon PAI powders may be incorporated into epoxy and other thermoset systems to provide additional strength, ductility and heat resistance. Torlon 4000T powders are available in 3 viscosity grades, which are defined by the inherent viscosity (IV) ranges shown in the accompanying data. - Low viscosity: 4000T-LV - Medium viscosity: 4000T-MV - High viscosity: 4000T-HV

Injection Notes: Drying Time/Temp: 4 hrs @ 300°F Drying Time/Temp: 16 hrs @ 250°F

Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Torlon-4000T-Polyamide-imide-PAI-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	0.50 - 0.59	0.50 - 0.59	Torlon 4000T-LV, 0.5% in NMP; Intrinsic Viscosity
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	0.60 - 0.69	0.60 - 0.69	Torlon 4000T-MV, 0.5% in NMP; Intrinsic Viscosity
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	0.70 - 0.90	0.70 - 0.90	Torlon 4000T-HV, 0.5% in NMP; Intrinsic Viscosity
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	177 °C	351 °F	
Dry Time	3.00 hour	3.00 hour	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Flame Retardant	
	Good Chemical Resistance	
	High Heat Resistance	
Forms	Powder	
Generic	PAI	
Processing Method	Coating	
	Compounding	
Uses	Blending	
	Cast Film	
	Coating Applications	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China