

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

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 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. Features: Flame Retardant; Good Chemical Resistance; High Heat Resistance Uses: Blending; Cast Film; Coating Applications Additional Properties: Intrinsic Viscosity - (25°C): 0.70 to 0.90; Intrinsic Viscosity - (25°C): 0.50 to 0.59; Intrinsic Viscosity - (25°C): 0.60 to 0.69 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.php

Processing Properties	Metric	English	Comments
Drying Temperature	177 °C	351 °F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Form	Powder	
Processing Technique	Coating; Compounding	

Descriptive Properties	Value	Comments
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