



TYNEX® Nylon Filaments

Safety and Handling Precautions

Manufacturer		
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Chemical Description	
Composition:	Polyhexamethylene dodecanamide (Polyamide 612); CAS No. 26098-55-5 Small amounts of colorants, lubricants, stabilizers, and/or additives

Hazard Considerations	
Stability:	Stable under normal use conditions
Conditions to avoid:	Temperatures above 340° C (644° F).
Materials to avoid:	Strong acids, bases, oxidizing agents
Decomposition products:	Carbon monoxide, ammonia, aldehydes
Spill:	Sweep up to prevent slipping hazard.

First Aid Measures	
Inhalation:	Move to fresh air in case of accidental inhalation of fumes from molten polymer. Consult physician after significant exposure to fumes.
Skin contact with Molten Polymer:	Wash off immediately with soap and plenty of water, cool skin rapidly with cold water. Do not peel polymer from skin. Obtain medical attention.
Eye Contact:	Rinse with water.
Ingestion:	Ingestion is not a probable route of exposure.

Fire and Explosion Data

Flash ignition temperature: 400° C (752°F) (ASTM D1929)
Extinguishing media: Water, carbon dioxide (CO₂), foam, dry powder
Special fire fighting instructions: None

Personal Protection Information

No specific technical precautions are required under normal storage, handling and processing conditions.

Provide appropriate exhaust ventilation, mainly in areas where fumes from molten polymer or dust may occur. Refer to the DuPont brochure *Proper Use of Local Exhaust Ventilation During Processing of Plastics* for additional guidance.

Control Parameters: Nuisance dust: 15 mg/m³ (Reference: US OSHA regulations)
 Respirable dust: 8-hr. TWA = 5 mg/m³ (Reference: US OSHA regulations)
 The use of an appropriate respirator is recommended should dust exceed above limits.

Eye Protection: Safety glasses are recommended.

Hygiene measures: Use good work practices. Wash hands after use. Do not breathe dusts or molten polymer vapors.

Physical Data

Melting Range: 208 - 215° C (406-419° F)
Boiling Point: Not Applicable
Solubility in Water: Insoluble
Specific Gravity: 1.04 – 1.08
Appearance & Odor: Odorless, monofilaments in a variety of colors

Disposal Considerations

Where possible, recycling or incineration with energy recovery is preferred to landfill disposal.

Other Information:

Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications see DuPont *CAUTION* Bulletin No. H-50102

The above product(s) are considered “articles” and, as such, are exempt from the Safety Data Sheet requirements. These products are considered non-hazardous when used according to accepted practices for the intended use. As a courtesy to our customers, DuPont prepared this document to provide basic guidance for safe handling, use, storage, transportation, disposal and release. The information is not to be considered a warranty or quality specification and relates only to the specific material designated herein and not to its use in combination with any other materials or in any process.

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