

Material Safety Data Sheet

B-PET Filament

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Company Identification

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Product Identification

Generic Product Name: B-PET Filament
Chemical Name: POLYETHYLENE TEREPHTHALATE
Molecular Formula: N/A
Molecular Weight: N/A

Recommended Use

General Purpose Monofilament Extrusion for 3D Printers

Product Class

B-PET, Post Consumer Recycled Polyethylene Terephthalate

Composition / Information on Ingredients

Material: RECYCLED POLYETHYLENE TEREPHTHALATE > 99 % / FILLERS <1%

Components (Remarks): Ingredients not precisely identified are proprietary or non-hazardous.

Physical Properties

Boiling Point: -Doesn't Apply-

Appearance: Clear Translucent, Translucent Colored (Red, Yellow) and Opaque (Black, White)

Point of Softening: >170F

Specific Gravity: 1.3 – 1.4 / 73F

Water Solubility: Insoluble

Odor: Odorless

% Volatiles: Negligible

Vapor Pressure: N/A

Fire and Explosion Protection

Flash Point: Unavailable

Flammable Limits: Unavailable

Extinguishing Media:

-Suitable: Sand, Water Fog, Foam, Carbon Dioxide and Dry Chemical.

-Unsuitable: Unknown.

Unusual Fire and Explosion Hazards: There are no explosion hazards.

Physical operations, such as grinding, can create dust and a potential dust explosion hazard. Under these conditions, follow National Fire Protection Association Code and Standards for handling combustible dusts.

Health Hazard Data

Threshold Limit Value (TLV): Not established

Emergency and First Aid:

If burned by contact with molten material, cool quickly as possible with water, and then go to see a physician for treatment of burn.

Exposure effects:

Inhalation: No data available

Eyes: Can cause mechanical irritation

May be harmful by ingestion, causes eye and skin irritation

Carcinogenicity Information:

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

Handling and Storage

Do not breathe vapors or fumes that may be evolved during processing. Material can be handled hot/molten. Contact can cause burns. Avoid contact with molten material.

Storage:

Store the container in a well dry/cool place. Keep away from ignition sources.

Handling: Protect after decomposition by keeping the floor clear of material scraps and snippets

Protective Measures:

Hands: To protect against thermal burns, gloves should be worn.

Eyes: In any type of industrial operation, safety glasses should be worn.

Industrial Hygiene:

Prevent contact with eyes, minimize contact with skin and inhaling of dust.

Dangerous Product After Decomposition:

Combustion will create carbon dioxide and most likely carbon monoxide.

Dangerous Reaction: Not known.

Disposal and Transportation

Disposal:

Recycle, landfill, or incineration.

Observe regulations of local authority.

Transportation: This material is NOT classified as dangerous for transport.

Stability and Reactivity

Chemical Stability:

Stable at normal conditions.

Incompatibility with other Materials

Incompatible or can react with strong oxidizers.

Other Information

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

CAUTION!

B-PET Caution Bulletin No. 1

DO NOT USE B-PET MATERIALS IN MEDICAL APPLICATIONS INVOLVING PERMANENT IMPLANTATION IN THE HUMAN BODY OR PERMANENT CONTACT WITH INTERNAL BODY FLUIDS OR TISSUES.

DO NOT USE B-PET MATERIALS IN MEDICAL APPLICATIONS INVOLVING BRIEF OR TEMPORARY IMPLANTATION IN THE HUMAN BODY OR CONTACT WITH INTERNAL BODY FLUIDS OR TISSUES UNLESS THE MATERIAL HAS BEEN PROVIDED DIRECTLY FROM B-PET UNDER A CONTRACT WHICH EXPRESSLY ACKNOWLEDGES THE CONTEMPLATED USE.

B-PET MAKES NO REPRESENTATION, PROMISE, EXPRESS WARRANTY OR IMPLIED WARRANTY CONCERNING THE SUITABILITY OF THESE MATERIALS FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTACT WITH INTERNAL BODY FLUIDS OR TISSUES.

THE CONTENT OF B-PET MATERIAL IS NOT CERTIFIED FOR IMPLANTS. B-PET materials are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. B-PET has not performed clinical testing of these materials for implantation. B-PET will not provide to customers making implantable devices any notice concerning its materials, as specified under 21 C.F.R section 820.50, or any other information necessary for medical device use of the materials under any other statute or FDA regulation. B-PET has neither sought, nor received, approval from the FDA for the use of these materials in implantation in the human body or in contact with internal body fluids or tissues.

DO NOT MAKE REFERENCE TO THE B-PET NAME OR ANY B-PET TRADEMARK IN ASSOCIATION WITH AN IMPLANTABLE MEDICAL DEVICE. Do not use a B-PET trademark as the descriptive name of an implantable medical device (e.g. do not call it the "Dacron®" prosthesis").

ALL IMPLANTABLE MEDICAL DEVICES CARRY A RISK OF FAILURE AND ADVERSE CONSEQUENCES

Regarding implantation of materials, you should rely upon the medical judgment of the physician, the medical device seller and the FDA. Do not rely upon B-PET. Examples of both harmful consequences and life-saving benefits from the implantation of various materials can be found in published medical performing clinical medical studies of an implantable medical device,

B-PET cannot weigh the benefits against the articles. Without risks of that device and cannot offer a medical judgment on the safety or efficacy of the use of our material in that device.

End of Bulletin