

# Polyethylene Purpolen™ PE F100-74



## 1. Identification of the substance/mixture and of the company/undertaking

**Trade name:** Purpolen PE F100-74  
**Material use:** Raw material for plastics industry  
**Supplier:** Borealis AG  
 E-mail address: product.safety@borealisgroup.com

## 2. Hazards identification

### Classification of the substance or mixture

The product is not classified as hazardous according to Regulation (EC) No 1272/2008 and its amendments.

### Label elements

Not a hazardous substance or mixture.

### Other hazards

The product burns, but is not classified as flammable. Dust from the product gives a potential risk for dust explosion. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 3. Composition/information on ingredients

The product is a polyethylene polymer.

It contains postconsumer recycled polymer.

Based on the information provided by our suppliers the product contains no substance classified as hazardous in concentrations which should be taken into account according to EC legislation.

## 4. First aid measures

**If inhaled:** Move to fresh air in case of accidental inhalation of vapours or decomposition products.

**In case of skin contact:** If molten material comes in contact with the skin, cool with plenty of water. DO NOT remove solidified product, as removal could result in severe tissue damage. Obtain medical attention.

### Most important symptoms and effects, both acute and delayed:

Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract.

## 5. Firefighting measures

**Suitable extinguishing media:** Water in spread jet, dry chemicals, foam or carbon dioxide.

**Specific hazards during firefighting:** Principal toxicant in the smoke is carbon monoxide.

## 6. Accidental release measures

Vacuum or sweep up spill. All spill of material must be removed immediately to prevent slipping accidents. Recycle or dispose loose material properly. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

It is recommended to implement systems and practices (such as Operation Clean Sweep®) to prevent accidental release of plastics in to the environment.

Purpolen is a trademark of the Borealis group.

mtm plastics GmbH | Bahnhofstraße 106 | D-99759 Niedergebra | Germany  
 Tel. +49 (0) 36338 / 325-0 | Fax +49 (0) 36338 / 325-25  
 info@mtm-plastics.eu | www.mtm-plastics.eu

# Polyethylene

## Purpolen PE F100-74

### 7. Handling and storage

**Advice on safe handling:** During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released. Avoid inhalation of dust and decomposition fumes. Provide adequate ventilation. Local exhaust ventilation or additional personal protective equipment (PPE) may be necessary.

**Advice on protection against fire and explosion:** Dust from the product represents a risk for dust explosions when dispersed with air in a sufficient concentration and with the presence of an ignition source. All equipment shall be grounded. Routine housekeeping will also contribute in preventing risks of dust explosions.

**Storage:** Safety aspects do not require any special precautions in terms of storage.

### 8. Exposure controls/personal protection

Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Appropriate personal protective equipment (PPE) shall be worn in accordance with Regulation (EU) 2016/425.

Provide adequate ventilation. Local exhaust ventilation may be necessary.

### 9. Physical and chemical properties

Appearance: pellets, dark grey  
Odour: slight

Melting point/range: 100 – 140 °C  
Density: 0,9 - 1,0 g/cm<sup>3</sup>

Ignition temperature: > 320 °C  
Water solubility: insoluble in water

### 10. Stability and reactivity

The product is a stable thermoplastic, with no chemical reactivity.

### 11. Toxicological information

The product is not classified as hazardous to human health.

### 12. Ecological information

The product is not considered hazardous for the environment. Not readily biodegradable. Does not accumulate in organisms. Avoid release to the environment.

### 13. Disposal considerations

Reuse or recycle if not contaminated. The product may be safely used as fuel. Proper combustion does not require any special flue gas control. Check with local regulations.

### 14. Transport information

The product is not regulated by ADR/RID, IMDG or IATA.

# Polyethylene

## Purpolen™ PE F100-74



### 15. Regulatory information

None known to apply.

### 16. Other information

Product does not require Safety Data Sheet in accordance with Article 31 of Regulation (EC) No 1907/2006, and its amendments.

Issuer: Borealis, Group Product Stewardship

#### Disclaimer

Recycled plastics are subject to material inconsistencies. mtm makes no warranties which extend beyond the description contained herein and to the best of our knowledge, the information is accurate and reliable as of the date of publication. Because of the multitude of possible influences during the use and application of our products, the information included does not release customers and users from the obligation to examine and test them carefully. Please note that nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose as mtm do not know the origin of the product. Where necessary, the customer is recommended to obtain a feedstock release from the customer. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. No liability can be accepted in respect of the use of any mtm product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above. The product(s) mentioned herein are not intended to be used for food contact, drinking water contact, medical, pharmaceutical or healthcare applications and we do not support their use for such applications. Otherwise, our General Terms and Conditions of Sale apply.

Purpolen is a trademark of the Borealis group.

mtm plastics GmbH | Bahnhofstraße 106 | D-99759 Niedergerbra | Germany  
Tel. +49 (0) 36338 / 325-0 | Fax +49 (0) 36338 / 325-25  
info@mtm-plastics.eu | www.mtm-plastics.eu