



# Material Safety Data Sheet

## PET Products of ZL engineering plastics, inc.

### 1. Product and Company

**ZL Products:** ZL™ 1400 PET  
ZL™ 1400 BLK – Black PET  
ZL™ 1400 T – Bearing Grade PET

**Manufacturer:** ZELL-METALL GmbH                      Tel: +43 6547 8417  
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A-5710 Kaprun    E-mail: zell-metall@zmk.at  
Austria/Europe    Website: www.zell-metall.com

### 2. Composition / Information on Ingredients

Stock shapes manufactured of extruded Polyethylenetheraphthalate, known as thermoplastic polyester, possibly stabilizing agents, pigments, fillers, additives.

**CAS – number:** Not required.

### 3. Possible Hazards

None.

### 4. First Aid Measures

Burns caused by molten material require hospital treatment.

### 5. Fire Fighting Measures

**Suitable Extinguishing Agents:** Water, water/foam, CO<sub>2</sub>, ABC extinguisher powder.

**Specific Hazards:** Treat the material as a solid that can burn. The stock shape or molded parts generally burn slowly with flaming drips. In case of fire appreciable quantities of carbon monoxide are released in combination with irritating and/or toxic substances.

**Protection for Fire-Fighters:** Do not approach fire in confined space without positive pressure self breathing apparatus and full bunker gear.

### 6. Measures in case of Accidental Release

None.

### 7. Handling and Storage

No special precautions necessary. Unlimited storage possible.

### 8. Exposure Limits

Components with workplace control parameters: Threshold Limit Value (TLV): a provisional TLV (TWA 8 hours) is advised in accordance with the TLV of nontoxic nuisance dust:

- 10 mg/m<sup>3</sup> for total dust.
- 5 mg/m<sup>3</sup> for respirable dust.

**Personal protective equipment:** Personal protective gear unnecessary.

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### 9. Physical and Chemical Properties

#### Appearance

Form: Solid as semi-finished (plate, rod, tube) at 20°C  
Color: Natural, grey, or black  
Odor: Formaldehyde

#### Change in Physical State

Melting point: 225 – 255°C  
Ignition temperature: 350°C  
Density: 1.36 g/cm<sup>3</sup>

### 10. Stability and Reactivity

Thermal Decay: To avoid thermal decomposition, do not overheat.  
Avoid temperatures above 350°C  
Dangerous by-products of decay: Protect against acid and acid-forming substances.

### 11. Toxicological Information

In our experience and according to information available to us, the product is not harmful to health provided it is correctly handled and processed according to the given recommendations.

### 12. Ecological Information

No indication that this material is being a risk to the environment.  
Insoluble non toxic solid material (no water hazard).

### 13. Disposal Information

Check for possible recycling. Can be dumped with domestic refuse or incinerated in suitable plants in accordance with local regulations.

### 14. Transport Information

Not classified as hazardous according to transportation regulations.

### 15. Rules

Labeling: Not subject to labeling.  
Water hazard class: Not a water hazard (VwVwS, Germany of 17.05.1999, ANNEA).

### 16. Special Information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

**For further information on our ZL™ 1400 PET Products,  
please contact ZL at 1-866-957-5278.**