

## Material Safety Data Sheet

1/4

**DYNEX PCGF20**

Revision Date: 2015.02.27 (Rev.0)

---

Product Name: DYNEX PCGF20  
Chemical Name: POLYCARBONATE  
CAS NO: 25971-63-5 (POLYMER)  
Product Use: Engineering Plastic Stock Shape for Machining  
Company Identification: DYNEX Co.,Ltd.  
Namdongseo-ro, Namdong-Gu, Incheon-City, Korea  
(TEL:82-32-677-2971, FAX:82-32-677-2974)

---

## Hazard Identification

**Emergency Overview**

NFPA Rating : Health = 1, Flammability = 1, Reactivity = 0  
HMIS Rating : Health = 0, Flammability = 1, Reactivity = 0

**Eye**

Dust and particles, like other inert materials, are mechanically irritating to eyes.

**Skin**

Hot and molten material has the potential to cause thermal burns.

**Inhalation**

Shapes not respirable.

**Ingestion**

No specific information available on the product.

---

## Composition, information on Ingredients

Additives not hazardous by 29 CFR 1910.1200.

Identity	CAS#	Concentration(%)
Polycarbonate	25971-63-5	65~75
Glass fiber	65997-17-3	19~21
Other additives	-	<3
Carbon Black		<1

---

## First Aid Measures

**Eye**

Immediately flush eyes with plenty of water. Seek medical attention if discomfort persists.

**Skin**

If hot and molten polycarbonate gf20 contact skin, cool rapidly with cold water. If polycarbonate gf20 is stuck to skin, do not remove, and seek medical attention. And allow adhered polycarbonate gf20 to come off naturally.

**Inhalation**

Polycarbonate gf20 is not likely to be inhaled due to physical form. When gas from molten polycarbonate gf20 is inhaled, move to fresh air.

**Ingestion**

If a significant quantity has been swallowed, give plenty of water to dilute. Seek medical attention.

---

## Material Safety Data Sheet DYNEX PCGF20

2/4

Revision Date: 2015.02.27 (Rev.0)

---

### Note to Physicians

Processing vapors may cause irritation to the eyes, skin and respiratory tract. In cases of severe exposure, nausea and headache can also occur.

---

## Fire Fighting Measures

**Flash Point** : 382°C (720°F)

**Autoignition Temperature** : 630°C (1166°F)

**Unusual Fire, Explosion Hazards** : None Known.

### Hazardous Product of Combustion

Carbon oxide and hydrocarbon fragments.

**Extinguishing Media** : Foam or water spray.

**Unsuitable Extinguishing Media** : Carbon dioxide and dry chemical are not recommended because of their lack of cooling capacity may permit re-ignition.

### Firefighting Instructions

Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear (bunker gear). Product burns with a very hot, but very faint blue flame. Water, foam and dry chemical may cause damage to electrical equipment.

---

## Accidental Release Measures

### Personal precaution

Sweeping to prevent fall.

### Environmental protection

No special measures.

---

## Handling and Storage

### Handling

During machining of the stock shapes, evacuate swarf to prevent slipping hazard.

### Storage

Store in well-ventilated area away from heat and sunlight.

# MSDS

Material Safety Data Sheet

3/4

**DYNEX PCGF20**

Revision Date: 2015.02.27 (Rev.0)

---

## Exposure Controls / Personal Protection

### Engineering Controls

A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended.

### Protective Equipment

**Eyes:** Wear safety glasses with side shields should be sufficient for most processing and machining runs.

**Skin:** When thermal or melt processing, wear long pants, long sleeves and well insulated gloves.

### Dust Limit Value

Respirable dust : 6mg/cm<sup>3</sup>. Inhalable dust : 10mg/cm<sup>3</sup>.

### Exposure Guidelines

Glass Fiber

PEL(OSHA) : No information

TLV (ACGIH) : 5mg/m<sup>3</sup> inhalable fraction

---

## Physical and Chemical Properties

<b>Appearance:</b>	Solid
<b>Smell:</b>	None
<b>PH:</b>	Not applicable
<b>Water Solubility:</b>	Insoluble
<b>Boiling Point:</b>	Not applicable
<b>Melting Point:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable
<b>Specific Gravity:</b>	1.33 ~ 1.37g/cm <sup>3</sup>

---

## Stability and Reactivity

### Chemical Stability

Stable under normal conditions of use and storage.

### Condition to Avoid

Heating above 320°C (608°F).

### Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, bisphenol-A, diphenylcarbonate and phenol derivatives.

---

## Toxicological Information

No specific information available on the product.

# MSDS

Material Safety Data Sheet

4/4

**DYNEX PCGF20**

Revision Date: 2015.02.27 (Rev.0)

---

## Ecological Information

### Ecotoxicity

No specific information available on the product.

### Environmental Information

This material is considered to be non-biodegradable.

### Aquatic Toxicity

Toxicity is expected to be low based on insolubility of polymer in water.

---

## Disposal Considerations

Recycling is encouraged. Dispose in accordance with local regulations.

---

## Transportation Information

This product is not subject to transport regulations.

---

## Regulatory Information

**OHSA:** This product is not considered hazardous under OHSA.

**TSCA:** All ingredients are listed.

**CERCLA:** Not Applicable.

**SARA 302/304:** No extremely hazardous substances.

**SARA 313:** This product is not contain any toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.

### California Proposition 65

Carbon Black : Listed (Feb.21.2003 Carcinogenic) – airborne, unbound particles of respirable size.

Glass Fiber : Listed (July.1.1990 Carcinogenic) – airborne, unbound particles of respirable size.

---

## Other Information

This product is not intended for use in medical applications involving permanent implantation in the human body. The information contained herein is based on the present state of our knowledge. We don't suggest or guarantee that any hazards listed herein are the only ones that exist. DYNEX Co., Ltd. Makes no warranty of any kind concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and this material may aggravate the effects of other materials.

Users have the sole responsibility to determine the suitability of the materials of any use and the manner of use contemplated. Users must meet all applicable safety and health standards.

End of MSDS