

42-5, Sinjang 6-gil, jangchenon-myeon,Gumi-si KYUNG SANG BUK-DO, KOREA TEL : 054-472-0431 FAX : 054-472-0432

MATERIAL SAFETY DATA SHEET

PC RESIN

GRADE : PC P110R

1. IDENTIFICATION

PRODCUT NAME:	PC P110R
PRODUCT DISCRIPTION:	PC (POLY CARBONATE)
PRODUCT USAGE:	MAY BE USED TO PRODUCE MOLDED OR EXTRUDED ARTICLES OR AS A COMPONENTS OF OTHER INDUSTRIAL PRODUCTS.
MANUFACTURER'S NAME:	POLYMERTECH CO., LTD.
MANUFACTURER INFORMATION:	42-5, Sinjang 6-gil, jangchenon-myeon,Gumi-si, KYUNG SANG BUK-DO, KOREA TEL : 054-472- 0431 FAX : 054-472-0432

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	%
POLY CARBONATE	103598-77-2	95~100
OTHERS(ADDITIVES)	-	0~5

3. HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4) : HEALTH=1 FIRE=1 REACTIVITY=0

EC CLASSIFICATION (CALCULATED) : No classification assigned.

EMERGENCY OVERVIEWS :

Solid pellets with slight or no odor. Spilled pellets create slipping hazard.

Can burn in a fire creating dense toxic smoke. Molten plastic can cause severe thermal burns.

Fumes produced during melt processing may cause eye, skin and respiratory tract irritation.

Secondary operations, such as grinding, sanding or sawing, can producs dust which may present an

explosion or respiratory hazard.

POTENTIAL HEALTH EFFECTS :

EYE :	Product may cause irritation or injury due to mechanical action.	
SKIN :	ellets not likely to cause skin irritation.	
INGESTIO :	Not acutely toxic.	
INHALATIO:	let inhalation unlikely due to physical form.	
CHRONIC / CARCINOGENICITY :		
NTP :	Not Tested	
OSHA :	Not Regulate	
IARC :	Not Listed	

4. FIRST AID MEASURES

MEDICAL RESTRICTION	NS :
	Remove contract lenses at once. Immediately flush eyes well with copious
EYE :	quantities of water or normal saline for at least 15-20 minutes. If irritation
	persists, seek medical attention.
SKIN :	seek medical attention if rash or burn occurs.
INGESTIO :	Not probable. If a large amount is swallowed, seek medical attention.
INHALATIO:	Not Likely to be inhaled due to physical form.
MELT PROCESSING :	
	a to a local destable for the motion and immediately and modified attention

For molten plastic skin contact, cool rapidly flush water and immediately seek medical attention.

Do not attempt removal of plastic without medical assistance. Do not use solvent for removal.

For processing fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing,

difficult breathing or any other symptoms develop seek medical attention at once, even if symptoms

develop at a later time.

For skin contact with fume comdiesate, immediately eash thoroughly with soap and water. If irritation

develops seek medical attention.

5. FIRE FIGHTING MEASURES

FIRE FIGHTING :

Approved pressure demand breathing apparatus and pritective clothing should be used for all fires.

Water spray is the preferred extinguishing medium. This product will melt but will not be carried on

the surface for water.

EXTINGUISHING MEDIA:

Water spray and foam, Water is the best extinguishing medium. Carbon dioxide and dry chemical

are not generally recommended because their lack of cooling capacity may permit re-ignition.

HAZARDOUS COMBUSTION PRODUCTS :

Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide,

carbon dioxide, oxides of phosphorus, hydrogen xyanide, hydrocarbon fragments, hydrogen

fluoride, carbonyl fluoride and fluorocarbon fragments.

FLASH POINT :	Not Applicable	
LOWER FLAMMABLE LIMIT :	Not Established	
UPPER FLAMMABLE LIMIT :	Not Established	
AUTOIGNITION :	Not Established	
CONDITIONS OF FLAMMABIL:	Requires a continuous flame source to ignite and sustain combustion.	
EXPLOSION DATA :		
IMPACT SENSITIVITY :	Not sensitive to mechanical impact.	
STATIC DISCHARGE :	Not sensitive to static discharge. (See Section 7)	

6. ACCIDENTAL RELEASE MEASURES

GENERAL :

Sweep or gather up material and place in preper container for disposal or recovery. (See Section 13)

7. HANDLING AND STORAGE

HANDLING :

Follow recommendations on label and in processing guide. Prevent contact with skin and eyes.

Use good industrial hygiene proctices. Provide adequnte ventilation. Secondary operations such as

grinding, sanding or sawing may produce a dust explosion hazard. Use aggressive housekeeping

activities to prevent dust accumulation; employ bonding, grounding, venting and explosion relief

provisions in accordance with accepted engineering practices.

STORAGE :

Store in a dry place away from moisture, excessive heat and sources of ignition.

8. 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. Processing fume condensate may be a fire hazard and toxic;

remove periodically from exhaust hoods, duct work amd othwr suricaces using appropriate

personal protection. For piwders and residual dusts refer to Section 7.

PERSONAL PROTECTION :

EYE/FACE :	Wear safety glasses with side shields or chemical goggles. In addition, use full face shield when cleanning processing fume condensates from hoods,	
RESPIRATORY :	ducts and other surfaces. When handling fumes are not adequstely controlled, use respirator approved for protection from organic vapors and acid gases. When dust or powder	
	from secondary operations, such as grinding, sanding or sawing, are not adequately controlled use respirator approved for protection from dust.	

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE :	Solid	
COLOR AND APPEARAN :	Plastic pellet with slight odor	
BOILING POINT :	Not Applicable	
MELTING POINT (°C):	220~ 230	
VAPOR PRESSURE (mm) :	Negligible	
VAPOR DENSITY (Air=1) :	Not Applicable	
SPECIFIC GRAVITY :	1.17 ~ 1.21 (water = 1)	
WATER SOLUBILITY :	Insoluble	
SOLVENT SOLUBILITY :	Slightly soluble in strong polar slovent or chlorinated solvents	
% VOLATITLES :	Negligible	
pH :	Not Applicable	
ODOR THRESHOLD :	Not Established	
EVAPORATION RATE :	Negligible	
COEFFICIENT WATER / OIL DISTRIBUTIO: Not Established		
COMMENT	This product does not exhibit a sharp melting point, but softens	
	gradually over a wide temperature range.	

10. STABILITY AND REACTIVITY

STABILITY :	Stable under recommended conditions of Section 7	
REACTIVITY :	Not reactive under recommended conditions of handling, storage, processing and use.	
CONDITIONS TO AVOID :		
Do not exceed melt temperature	recommendations in product literature.	
In order to avoid autolgnition/h	azardous decomposition of hot thick meases of plastic, purgings should	
be collected in small, flat shapes	or thin strands to allow for rapid cooling and quenching in water.	
Do not allow product to remain	in barrel at elevated temperatures for extended periods of time ;	
purge with a general purpose re	sin. (See Section 8 for respiratory protection advice)	
HAZARDOUS DECOMPOSIT	ION :	
Major decomposition gases are	oxidized hydrocarbons (probably carbon monoxide) and steam.	
Minor components in decompos	ition gas may be aldehyde, phenolic compounds, etc.	

11. TOXICOLOGICAL INFORMATION

Not Available

12. ECOLOGICAL INFORMATION

Not expected to present any significant ecological problems.

13. DISPOSAL CONSIDERATIONS

RCRA HAZARDOUS WASTE :

Products is not a RCRA hazardous waste.

WASTE DISPOSAL :

Recycling is encouraged. Landfill or incinerate in accourdance with federal, state and local

requirements. Collected processing fume condensates and incinerator ash should be tested to

determine waste classification.

14. TRANSPORT INFORMATION

DOT HAZARD CLASS :	Not Regulated
PROPER SHIPPING NAME :	Not Regulated
IDENTIFICATION NUMBER :	Not Listed
TDGA :	Not Listed

15. REGULATORY INFORMATION

Listed below are chemical substar	ces subject to supplier notification requirements.	
U.S. REQULATIONS :		
TSCA INVENTORY STATU:	This product complies with the Chemical Substance Inve	ntory
	requirements of the US EPA TSCA.	
CERCLA SECTION 103 (40CFR	302 : Not Listed	
SARA SECTION 313 (40CFR372	.65 : Not Listed	
SARA HAZARD CATEGORIES	SARA SECTIONS 311/312 (40CFR370.21)	
ACUTE :	Not Listed	
CHRONIC :	Not Listed	
FIRE :	Not Listed	
REACTIVE :	Not Listed	
SUDDEN RELEASE:	Not Listed	
STATE REQULATIONS :		
California Proposition 65 :	Not Listed	
EUROPEAN REGULATIONS :		
EC NUMBER :	Not assigned	
PC RESINS		POLYMERTECH CO LTD

16. OTHER INFORMATION

The information submitted	in this MSDS is based on our current knowledge and experience.
Because it is not possible to	anticipate all conditions of use additional safety precautions may be
required, we make no war	anty.
ABBREVIATIONS :	
ACGIH :	American Conference of Governmental Industrial Hygienist
DOT :	Department of Transportation
EC : E	uropean Communities
EPA :	Environmental Protection Agency
IARC :	International Agency for Research on Cancer
NOISH :	National Institute for Occupational Safety and Health
NTP :	National Toxicology Program
OSHA :	Occupational Safety and Health Administration
RTECS :	Registry of Toxic Effects of Chemical Substances
CAS # :	Chemical Abstracts Service Number
RCRA :	Resource Conservation and Recovery Act