Test Report

SHANGHAI SECCO PETROCHEMICAL CO.,LTD

XIHE ROAD,SHANGHAI INDUSTRY PARK,SHANGHAI,P.R.CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : K4912 FAC0006

SGS Job No. :	SHD201003433 - SH
Date of Sample Received :	09 Feb 2010
Testing Period :	09 Feb 2010 - 12 Feb 2010
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	The submitted Translucent plastic particle sample said to be used for K4912 FAC0006 complies with the FDA Specifications for polyolefin co-polymer used in articles that contact with food except for articles used for packing or holding food during cooking.

Signed for and on behalf of
SGS-CSTC Ltd.

Sandy Hao

Hao Jinyu, Sandy
Lab Manager

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA10-012868.001	Translucent plastic particle

FDA 21 CFR 177.1520

Test Requested : As specified for client, for compliance with the Food and Drug Administration Regulations for polyolefin co-polymer used in contact with food.

Test Method : As specified in FDA 21 CFR 177.1520.

Test Item(s)	Limit	*001*
Extractable fraction in n-hexane at 50ºC , W/W %	5.5	3.0
Density at 23℃, g/ cm³	0.850-1.000	0.899
Extractable fraction in xylene at 25℃, W/W %	30	4.0

Sample photo:

SHA10-012868.001

SGS authenticate the photo on original report only

*** End of Report ***

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Material Safety Data Sheet(MSDS)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	PP(Polypropylene)
Other Name:	-
Recommended use :	May be used to produce molded or extruded particles or as a component of other industrial products.
Manufacturer or supplier:	Shanghai SECCO Petrochemical Company Limited 4/30F,A Building, Far East International Plaza No.319, Xian Xia Road,Shanghai 200051 P.R. China
Emergency phone/fax :	+86-21-52574688

2. 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 : Pellets not likely to cause skin irritation.
INGESTION : Not acutely toxic.
INHALATION : Pellet inhalation unlikely due to physical form.
CHRONIC / CARCINOGENICITY :
NTP : Not Tested **OSHA :** Not Regulated **IARC :** Not Listed

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Cont nt (%)	**CAS Number**	Exposure Limits In Air		
			ACGIH TLV-TWA	ACGIH TLV-STEL	IDLH
Polyolefin	99.25wt%	9010-79-1	10mg/m3 (inhalable fraction)	NA	NA
Proprietary additives	≦0.75wt%	mixture	-	-	-

4. FIRST AID MEASURES

MEDICAL RESTRICTIONS :
EYE : Remove contract lenses at once. Immediately flush eyes well with copious 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.
INGESTION : Not probable. If a large amount is swallowed, seek medical attention.
INHALATION : Not Likely to be inhaled due to physical form.

MELT PROCESSING :
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 symptomsdevelop 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
FLAMMABILITY CONDITIONS : Requires a continuous flame source to ignite and sustain combustion.
EXPLOSION DATA : Not Established
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 removall 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,ducts and other surfaces.
RESPIRATORY : 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 APPEARANCE : Plastic pellet with slight odor
BOILING POINT : Not Applicable
MELTING POINT (℃) : 160 170
VAPOR PRESSURE (mmHg) : Negligible
VAPOR DENSITY (Air=1) : Not Applicable
SPECIFIC GRAVITY : 1.40 1.60
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
EVAPORATION RATE : Negligible
COEFFICIENT WATER / OIL DISTRIBUTION : 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/hazardous 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 resin. (See Section 8 for respiratory protection advice)
HAZARDOUS DECOMPOSITION :
Major decomposition gases are oxidized hydrocarbons (probably carbon monoxide) and steam. Minor components in decomposition 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 substances subject to supplier notification requirements.
U.S. REQULATIONS :
TSCA INVENTORY STATUS : This product complies with the Chemical Substance Inventory requirements of the US EPA TSCA.
CERCLA SECTION 103 (40CFR302 : 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

16. OTHER INFORMATION

None