







**Pipe Application Solutions** 

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# Company Introduction



GC Marketing Solutions Company Limited, or GCM, a subsidiary of PTT Global Chemical Company Limited (GC). GCM is a major polymer sales and marketing company in Thailand. We offer variety of high-quality polymers such as high density polyethylene (HDPE), low density polyethylene (LDPE), linear low density polyethylene (LLDPE), polypropylene (PP), polystyrene (PS) and polyethylene terephthalate (PET). Our products are distributed throughout Thailand as well as being exported to more than 100 countries around the world with the product and services qualities are well accepted by our customers internationally.

www.gcmgrp.com





**GC** LØGISTICS

#### **Solution Creation Company Limited**

**GC Marketing Solutions Company Limited** 

Solution Creation Company Limited, or SUN, a subsidiary of PTT Global Chemical Public Company Limited (GC), is a distributor of polymer compound which are high density polyethylene (HDPE), linear low density polyethylene (LLDPE), polypropylene (PP) and polystyrene (PS) compound including bioplastics and bioplastics compound.



#### **GC Logistics Solutions Company Limited**

GC Logistics Solutions Company Limited, or GCL, a subsidiary of PTT Global Chemical Public Company Limited (GC). GCL is full logistics service for chemical business and other products. The services is including silo, bagging & packing, warehouse management, transportation, freight forwarding, and customs clearance etc. We are committed to strengthen our client's competitive advantage though high quality services, advanced technology and competitive cost.

www.qc-logistic.com

### PTT Global Chemical Public Company Limited



www.pttgcgroup.com











# **Product Introduction**

### **Business Trends**

High-density polyethylene pipe (HDPE) is a polyethylene thermoplastic made from petroleum. It is used in the production of corrosion-resistant and durable piping. HDPE pipes are the most appropriate replacement to concrete, cast iron and pipes and are one of the most premier mediums of conveying and transporting potable water, gases, chemicals, industrial fluids, wastewater, etc. HDPE pipes are exceptionally easy to carry which saves transportation costs and helps keep the handling costs at a lower level. In addition, these pipes are available in a wide range of diameters ranging from 16 to 2,000 mm. HDPE pipes are essentially non-corrosive which make them suitable for water and chemical transportation.

### **Value Chain**



#### Converter

Benefit to Converter (Production Perspective):

- Our material is compound grade, quick set-up procedure and less scrap
- Well controlled in quality which provide higher output rate and lower cost
- Improved logistics with lower stock holding (one material for all pipe size)

#### Installer

Benefit to Installer (Installer Perspective):

- Less risk of pipe rejection, less risk of project delays
- Higher crack resistance support trenchless technic, less sandbed lead to reduce installation time and impact to environment

#### **Facility Owner**

Benefit to Facility Owner (Facility Owner Perspective):

- Lower risk of failures
- Lower overall cost
- Longer life span > 50 years

#### Consumer

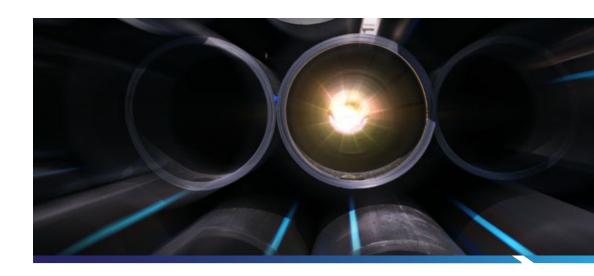
Benefit to Consumer (User Experience Perspective):

- Safety (durable, reliability, leak free)
- Health safety
- Environment friendly

# Solutions

## **Product Quality**

Because the quality and thermal stability are major required for pipe product, we are strongly committed to producing InnoPlus and Plastmate resin a safe, functional and legal product by obtaining globally recognized certification.



# **♀ InnoPlus ▮ PlastMate**

InnoPlus natural PE pipe is manufactured under International ISO 9001 / ISO14001 / OHSAS 18001 standard and strictly control for Good Manufacturing Practices (GMP) and Hazard Analysis and Critical Control Point (HACCP) standard. They also meet with international standard regulations in contact with food application such as U.S FDA 21 CFR 177.1520 and EC1935/2004, EU10/2011 and its amendments. Additionally, they comply with HALAL for Muslim country and GB 9685-16 for China, Includeing with local standard which are TIS816-2538 and TIS2559-2554 respectively.

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## **Service Quality**

We are also strongly committed to handle and deliver pipe resin. We storage the resin in International Distribution Center (IDC) is one of the largest in the Southeast Asian region. It is over 140,000 sq.m. in size and has a capacity to handle the production and delivery of over 1 million tons of polymer per year with most advanced technology under top quality management.

We provide fully logistics with highly effective integrated Transportation Management System (TMS) spanning across transportation network design, routes selection, vehicle scheduling and freight management to ensure the best results.



# How to Handling and Storage

### Handling

- Use good housekeeping for safe handling of the product.
- No smoking, open flames or source of ignition drinking or eating in handling and store area.
- · Avoid spilling the product, as this might cause falls.
- · Potential toxic/irritating fumes may be evolved from heated material. Provide appropriate ventilation for such processing conditions.
- · Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules.

#### **Storage**

- Store away from heat, ultraviolet and direct sunlight in a dry, cool and well-ventilated area.
- Take precautionary measures to prevent the formation of static electricity.
- Do not store together with oxidizing and self-igniting products.

# **○ InnoPlus ○ PlastMate**



## **GRADE Selection: HDPE**

Properties	InnoPlus HD8100M	PlastMate HD8100MB
MFR at 190 'C, 5 kg (g/10min)	0.25	0.25
Density (g/cm3)	0.952	0.960
Carbon black content (% wt)	-	2.25
Flexural modulus (Kg/cm2)	11,000	11,500
MRS Classification	PE100	PE100
	Water Supply	
Business Segment	Construction and Infrastructure	
	Industrial and Chemical	

For more information: www.gcmgrp-techinfo.com