



GC MARKETING

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www.gcmgrp-techno.com



Large Blow Solutions

Updated as of June 2021



Company Introduction



PTT Global Chemical Public Company Limited

PTT Global Chemical Public Company Limited, or GC, Thailand's largest integrated petrochemical and refining business and a leading corporation in the Asia-Pacific region, both in size and product variety. GC has a combined olefins and aromatics capacity of 11.28 million tons/year. We committed to creating chemical innovations for a better future. We strongly support technological advances that meet today's lifestyles through products that span several sectors including automobiles, construction, medical products, electric and electronic equipment, agricultural products, environmentally friendly, and safe consumer products that benefit society and improve consumer satisfaction.



GC Marketing Solutions Company Limited

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 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.gc-logistic.com



Product Introduction

Business Trends

HDPE large blow molded products market are using machine and material that deliver faster cycle time and lightweight products. HDPE large blow molded products requires easy processing to accelerate productivity and cost-effectiveness. Thus, the lightweight attribute to blow molding product such as food & beverage containers, plastic drums and others. Moreover, the high-tech extrusion blow molding machines are become a prominent trend in the large blow molded products due to energy savings. In term of recycling ability of HDPE product is increased in global market that is focus on sustainability plastic resin and environmental-friendly.

Value Chain



Converter

Benefit to Converter (Production Perspective) :

Our HDPE resin for blow molding resin is well controlled in quality to provide an advantage of good processability, product stability and product consistency which essential for high strength and superior Environmental Stress Crack Resistance.



Brand

Benefit to Brand Owner (Marketing Perspective) :

Our HDPE resin for blow molding delivers quality advantages of high stiffness and superior Environmental Stress Crack Resistance (ESCR) properties which secure and strengthen the branding.



Consumer

Benefit to consumer (User Experience Perspective) :

Our HDPE resin for blow molding is high strength and chemical resistance product which serve a benefit of suitable packaging respond of function and long time usage for our valuable customer.

Solutions

Product Quality

Because the quality and safety are major required for large blow, we are strongly committed to producing InnoPlus large blow resin a safe, functional and legal product by obtaining globally recognized certification.

InnoPlus

InnoPlus PE for large blow application is manufactured under International ISO 9001 / ISO 14001 / OHSAS 18001 standard and strictly control for Good Manufacturing Practices (GMP) and Hazard Analysis and Critical Control Point (HACCP) standard.

InnoPlus PE for large blow application also meet with international standard regulations in contact with food application such a U.S FDA 21 CFR 177.1520 and EC1935/2004, EU10/2011 and its amendments.

In particular country, InnoPlus PE for Large blow application comply with HALAL for Muslim country, GB 9685-16 for China and TIS 816-2556 for Thailand

Service Quality

We are also strongly committed to handle and deliver large blow 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 GRADE Selection

Properties	Test Method (ASTM)	Grade HD7200B	Grade HD7800B	Grade HD8200B	Grade HD7800B
MFR at 190 °C, 21.6 kg	D1283	8.5	6	4	6
Density (g/cm3)	D1505	0.956	0.950	0.955	0.950
Flexural Modulus (kg/cm3)	D790	12000	12000	12000	12000
Notched Izod Impact at 23 °C (kg.cm/cm)	D256	25 (NB)*	72 (NB)*	64 (NB)*	72 (NB)*
ESCR : 25% Igepal, F50 (hr)	D1693	>1000	>1000	>1000	>1000
UV Added	-	No	Yes	No	No

*Remark: NB = Non-Break

For more information : www.gcmgrp-techno.com

