

FOR BETTER LIVING





Because our plastic and chemical products are all around you, we take utmost care in every step throughout their journey to deliver only the best for you.





PTT Global Chemical Public Company Limited (GC) is PTT Group's petrochemical flagship. We are committed to strengthening our leading position in the chemicals business by combining environmentally-friendly innovations with advanced technologies to develop products for people's better living.

GC comprises diversified and comprehensive petrochemical businesses, including manufacturing and distribution of upstream, intermediate, and downstream petrochemical products.

These products can be converted into other chemical products and serve as basic feedstock for downstream industries such as packaging, apparel, communications and electronic equipment, electrical appliances, vehicles, construction materials, engineering-based plastics, agricultural equipment, and much more. These products are not only part of our daily lives but they also enhance the way we live.



Shareholder

Business Partner

We deliver the best business performance through trustworthiness to create fair and sustainable value for shareholders. We provide superior solutions from innovative and sustainable products and services to be the best choice for our business partners.

Nission Nission File File

Society

We integrate social and environmental responsibility into our business practices to achieve sustainable development.

Employee

We build an organization that is prepared for dynamic change and learning by providing a happy working environment promoting the development of employees' capabilities and enabling them to meet new challenges with dedication to the organization and to professional excellence.

Product Overview & Certificate

InnoPlus is a registered trademark of PTT Global Chemical Public Company Limited (GC). GC manufactures Polyethylene (PE), nameplate capacity at 1,950,000 MTA per year and Polyethylene Terephthalate (PET) nameplate capacity at 200,000 MTA per year.



InnoPlus High Density Polyethylene (HDPE) has a total production capacity at 850 KTPA. InnoPlus HDPE is made from the low-pressure polymerization using the slurry process of Mitsui Technology. InnoPlus HDPE offers high certainty of specific properties to meet all particular needs and complies with international standards regulations i.e., U.S FDA 21 CFR 177.1520 and EU 10/2011. InnoPlus HDPE also meet the Restriction of Hazardous Substances (RoHS) according to 2002/95/EC

LLDPE

InnoPlus Linear Low Density Polyethylene (LLDPE) has a total production capacity at 400 KTPA. This technology can provide a wide range of LLDPE products.



LDPE

InnoPlus Low Density Polyethylene (LDPE) has a total production capacity of 300 KTPA. InnoPlus LDPE is produced by a high pressure tubular process, a technology licensed by LyondellBasell.

Certificate of HDPE, LLDPE



ISO 9001 Quality Management System by MASCI



ISO 50001 Energy Management System by MASCI



GHPs Good Manufacturing Practice System by MASCI

mLLDPE

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InnoPlus Metallocene Low Density Polyethylene (mLLDPE) has a total production capacity at 400 KTPA. InnoPlus mLLDPE is produced by low pressure polymerization, using gasphase of Unipol Process under the license of Univation Technolog who is leading global technology licensor of proven metallocene PE technology. These unconventional mLLDPE from variety of catalyst offer a superior puncture and draft impact resistance, good seal ability and excellent optical property. InnoPlus mLLDE is widely used for cast and blown film applications. InnoPlus Polyethylene Terephthalate (PET) has total production capacity at 200 KTPA. InnoPlus PET is produced by the leading technological know-how of Lurgi Zimmer GMBH (Germany) and Bühler AG (Switzerland).

PE





ISO 14001 Environment Management System by MASCI



ISO45001 Occupational Health and Safety Assessment Series by MASCI



CinnoPlus

0.01

by ÔGC

ADDDDA

НАССР

Hazard Analysis Critical Control Point System by MASCI

GC Product Brand of Other Polymers



PlastMate is registered trademark of PTT Global Chemical Public Company Limited (GC) for various type of compound resin such as PE compound, PP compound, PS compound, PC compound, ABS compound and Bioplastics Compound.



InnoEco is registered trademark of PTT Global Chemical Public Company Limited (GC) for high quality recycled plastic resin products. (Post-consumer recycled: PCR) of the GC group.

Maximum production capacity of 45,000 tons of recycled plastic resins each year.

Consisting of 30,000 tons of PCR PET resin and 15,000 tons of PCR HDPE resin.



DIAREX is a registered trademark of PTT Global Chemical Public Company Limited for Polystyrene (GPPS and HIPS).

The capacity of GPPS and HIPS are 60,000 MTA and 30,000 MTA, totally 90,000 MTA. Furthermore, we offer a wide range of Diarex grade with various properties for using in injection molding or extrusion process.



X PURGE is registered trademark of GC Marketing Solutions Company Limited (GCM) subsidiary of PTT Global Chemical Public Company Limited (GC) for Purging compound. Distributed by GC Marketing Solutions Company Limited (GCM)

X PURGE is a high efficiency ready-to-use purging compound which provides fast and effective color, material change and contaminant removal in the machine without disassembly. X PURGE will reduce machine downtime and/or maximize productivity. This product is designed for cleaning various types of the machines i.e., injection molding machines, blow molding machine, blown film machine, sheet castingmachine.



InnoSis is a registered trademark of GC Marketing Solutions Company Limited, a subsidiary of PTT Global Chemical Public Company Limited (GC) for polyethylene trading.

Trading polyethylene of InnoSis is the product under the concept of being a leading distributor of plastic resin who is developing products to meet customer needs and create better quality products.

GC Product Label

Bioplastics are plastics derived from agricultural raw materials (Biobased) or petroleum (Petrobased). Bioplastics have a plastic-like quality and characteristics. They can be melted and formed by general processes with general machines; only slight adjustments may be needed. For bioplastics made from agricultural raw materials, they are produced by a fermentation process that converts agricultural raw materials into monomers, which are then used to produce plastic pellets. Currently, the raw materials used in bioplastics production are corn, sugarcane, and cassava.







Solutions For Every Product Applications

GC commits to continually develop plastic resins covering all applications various market to support all needs, reinfoce efficiency including adding value to products for all industries such as packaging, agriculture, home goods and personal care, construction, electrical appliances, automotive and others.

Rigid Packaging



US FDA

Food and Drug

Administration (FDA)

US FDA 21 code of Federal

Specification acco



Caps and Closures (*)

Caps and Closures application is innovated under the concept of Connected Packaging Development to deliver an identical proposition of brand owners, or conversion players and to experience on closure functions for supporting consumers trend such as lightweight, easy opening, complicated closure design for niche. GC offers wide range of product grades to serve packaging trend and carbon reduction goal with caring environmental change.



Large Blow Molding

Large blow molding application is commonly used in the packaging containers of household and industrial sectors. GC products can serve from 20 up to 3,000 liter covering jerry cans, chemical and industrial drums, intermediate bulk container (IBC) with product durability and various design. By the durability performance of the material, consumers can gain the benefit from extending of the product lifetime which can be engaged in supporting the environmental care and sustainability aspects.



Liquid Bottles (Small Blow)

Blow molding is typically used to produce containers or bottles in the liquid bottle segment. The market for HDPE blow-molded products uses machines and materials that deliver faster cycle times and lightweight products. HDPE blow-molded products require a balance of easy processing and good mechanical strength to enhance the combination of productivity, cost-effectiveness, and bottle-strength performance. GC's blow molding product portfolio offers a comprehensive range of grades to meet a wide variety of performance requirements.



Consumer Goods

Injection molding is a common process for producing application parts from small to large volumes, e.g., toy parts, plastic containers, crates, garbage bins, plastic pallets, etc. The extrusion-thermoforming process is a general process for producing plastic thin wall sheets and forming thin wall products such as plastic tray for food or E&E appliances, plastic cup or lid, etc.

Raw materials for the finished part are the foundational components, which are generally chosen based on the function and specifications of the final product part. GC's consumer goods product portfolio offers a wide range of product grades in a broad processing window in order to support versatile product performance and needed design.

International Standard Compliances





Caps & Closures Rigid Packaging















Carbonated Soft Drinks (CSD)

Non- Carbonated Soft Drinks (non-CSD)

Home and Personal Care (HPC)

InnoPlus: HDPE									
Droportion	Test Method	Ilaia	Caps & Closures						
Properties	Test Method	Unit	HD1010J	HD1600JP	HD2401C	HD2200JP	HD3200C		
MFR (190 °C, 2.16 kg)	ASTM D1238	g/10 min	20	12	7	3.5	2.3		
Density	ASTM D1505	g/cm³	0.956	0.958	0.964	0.961	0.967		
Melting Temperature	ASTM D3418	°C	130	132	136	135	132		
Tensile Strength at Yield	ASTM D638	kg/cm²	290	290	310	310	310		
Tensile Strength at Break	ASTM D638	kg/cm²	140	200	175	210	200		
Elongation at Break	ASTM D638	%	200	230	750	>1,000	150		
Flexural Modulus	ASTM D790	kg/cm²	12,000	12,500	15,000	14,500	17,000		
Notched Izod Impact Strength	ASTM D256	kg.cm/cm	4 (C*)	3 (C*)	4 (C*)	5 (C*)	2.5 (C*)		
Durometer Hardness	ASTM D2240	shore D	64	64	65	66	67		
Vicat Softening Point	ASTM D1525	°C	122	120	127.5	126	123		
ESCR; 10% Igepal, F ₅₀	ASTM D1693	Hours	Initial	3	6	4	15		
Slip Agent			No	No	No	No	No		
End Product			Non-CSD /Food/HPC	Bottled Water/ Non-CSD					
Product Highlight			Over caps, Screw spout caps, Flip spout caps. Excellent processability for high complexity mold design with organoleptic property.	Beverage caps a with organoleptic p	nd closures for minera roperty. Compatible wi	I and still water, juice, te th injection and compre	ea or liquid dairy ssion processings.		

Note : *C = Complete Break *P = Partial Break

*NB = Non Break

	InnoPlus: HDPE								
Demotion	To a Mathed	11-14			Caps & Closures				
Properties	Test Method	Unit	HD3000C	HD3001C	HD3500C	HD3502C	HD4502C		
MFR (190 °C, 2.16 kg)	ASTM D1238	g/10 min	2	2	1	1	0.5		
Density	ASTM D1505	g/cm³	0.954	0.954	0.956	0.956	0.957		
Melting Temperature	ASTM D3418	°C	132	132	130	130	130		
Tensile Strength at Yield	ASTM D638	kg/cm²	260	260	240	240	276		
Tensile Strength at Break	ASTM D638	kg/cm²	320	320	270	270	268		
Elongation at Break	ASTM D638	%	900	900	>1,000	>1,000	900		
Flexural Modulus	ASTM D790	kg/cm²	11,300	11,300	11,500	11,500	11,800		
Notched Izod Impact Strength	ASTM D256	kg.cm/cm	5 (P*)	5 (P*)	6 (NB*)	6 (NB*)	6.8 (NB*)		
Durometer Hardness	ASTM D2240	shore D	62	62	62	62	62		
Vicat Softening Point	ASTM D1525	°C	122	122	120	120	120		
ESCR; 10% Igepal, F ₅₀	ASTM D1693	Hours	24	24	460	460	>1,000		
Slip Agent			Yes	No	Yes	No	No		
End Product			Bottled Water/	Non-CSD/CSD		CSD			
Product Highlight			Beverag Comp	e caps and closures fo with organole batible with injection an	r CSD and Functional S ptic property. Id compression proces	parkling sings.	Lightweight CSD caps and closures with organoleptic property, superior stress cracking resistance. Compat- ible with injection and compression		

Note : *C = Complete Break *P = Partial Break

*NB = Non Break

processings.

InnoPlus: LLDPE							
Dramastica	Test Method	11	Caps & Closures				
Properties	Test Method	Unit	LL8420A				
MFR (190 °C, 2.16 kg)	ASTM D1238	g/10 min	20				
Density	ASTM D792	g/cm³	0.924				
Molded Plague Properties							
Tensile Strength at Yield	ASTM D638	MPa	15				
Tensile Strength at Break	ASTM D638	MPa	10				
Elongation at Break	ASTM D638	%	700				
Vicat Softening Point	ASTM D1525	MPa	92				
Durometer Hardness	ASTM D2240	Shore D	53				
ESCR; 25% lgepal, F ₅₀	ASTM D1693	Hours	-				
Slip Agent			No				
End Product	Food/HPC						
Product Highlight	Flip top caps, Lids, Pull Ring caps for Edible Oils, Dairy etc., Hinge caps. Excellent processability.						

InnoPlus: LDPE								
Dhusical Dranartico	Test Method	Unit	Caps & Closures					
ritysical rioperties	rest method	Unit	LD2026K ⁽²⁾	LD2426K ⁽²⁾				
MFR (190 °C, 2.16 kg)	ISO 1133	g/10 min	4	4				
Density	ISO 1183	g/cm3	0.920	0.924				
Melting Temperature	ISO 11357	°C	109	112				
Vicat Softening Point	ASTM D1525	°C	88	92				
Slip Agent			Yes	Yes				
End Product			Food	/HPC				
Product Highlight	Flip top caps, Lids, Pull Ring c Hinge caps. Excell	aps for Edible Oils, Dairy etc., ent processability.						

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Large Blow Molding Rigid Packaging







≥ 200L Drum



End Product	<200L Drum		IBC	≥ 200L Drum	Floating Solar Pontoon
Product Highlight	Excellent Processability, Extremely High Stacking Performance, High Impact Strength recommended for Large Blow Molding Products e.g. Drums, Jerry cans, Water Tanks, etc.	Excellent Processability, Extremely high Impact Strength and Good Stacking Performance recommended for Large Blow Molding Products e.g. Drums, Jerry cans, Pontoon and heavy duty applications, etc.	UV Added Grade with Excellent Processability, Extremely High Impact Strength and Good Stacking Performance, suitable for Large Blow Molding Product e.g. Intermediate Bulk Containers (IBC), Drums, Jerry cans, Pontoons and Outdoor Applications, etc.	Excellent Processability, Extremely High Impact Strength and Stacking Performance recommended for Large Blow Molding Products e.g. 200 L Drums, Jerry cans, Pontoon and heavy duty applications, etc.	UV stabilizer added for providing extremely outstanding UV resistance specially designed for long-term durability service life outdoor applications

Note: *C = Complete Break *P = Partial Break *NB = Non Break









Liquid Bottles (Small blow) **Rigid Packaging**





Water Bottle















Dreparties	Test Method	Unit	Blow Molding					
riopenties	Test Method	Unit	HD4200B	HD5200B	HD6200B	HD6600B		
MFR (190 °C, 2.16 kg)	ASTM D1238	g/10 min	0.67	0.45	0.45	0.40		
Density	ASTM D1505	g/cm³	0.966	0.966	0.962	0.957		
Melting Temperature	ASTM D3418	°C	135	135	135	135		
Tensile Strength at Yield	ASTM D638	kg/cm²	310	320	330	320		
Tensile Strength at Break	ASTM D638	kg/cm²	230	350	350	400		
Elongation at Break	ASTM D638	%	> 1,000	> 1,000	1,000	1,000		
Flexural Modulus	ASTM D790	kg/cm²	18,000	17,500	15,000	14,000		
Notched Izod Impact Strength	ASTM D256	kg.cm/cm	13 (P*)	15 (P*)	12 (P*)	10 (P*)		
Durometer Hardness	ASTM D2240	shore D	65	66	65	65		
Vicat Softening Point	ASTM D1525	°C	125	127	125	125		
ESCR; 25% lgepal, F ₅₀	ASTM D1693	Hours	25	30	60	400		
End Product			Food Bottle, Drin and Mil	king Water Bottle k Bottle	Food Bottle, Drin Milk Bottle, Per Lubricant	king Water Bottle, sonal Cares and Container		

Note : *C = Complete Break

*P = Partial Break *NB = Non Break

InnoPlus: PET									
			Injection Blow Molding						
Items	Methods	Units	SA125T	SA135T / SA135T(B)	SA135T(H)	SA145T	SA150T		
Intrinsic Viscosity	MCI Method	dl/g	0.77 ± 0.02	0.82 ± 0.02	0.80 ± 0.02	0.86 ± 0.02	0.90 ± 0.02		
Acetaldehyde	MCI Method	ppm	2 max	1 max	1 max	1 max	1 max		
Color-L	MCI Method	-	75 min	75 min.	75 min.	75 min.	75 min.		
Color-b	MCI Method	-	1.0 max	1.0 max	1.0 max	1.0 max	1.0 max		
Diethylene Glycol	MCI Method	%wt	1.10-1.60	1.10-1.60	1.30 max	1.10-1.60	1.10-1.60		
Powder	MCI Method	ppm	100 max	100 max	100 max	100 max	100 max		
Appearance	MCI Method	-	Conformity	Conformity	Conformity	Conformity	Conformity		
Foreign Matters in chip <0.2 mm	MCI Method	pc/100g	5 max	5 max	5 max	5 max	5 max		
Foreign Matters in chip ≥0.2 mm	MCI Method	pc/100g	0 max	0 max	0 max	0 max	0 max		
Metallic Foreign Matters	MCI Method	pc/100g	0 max	0 max	0 max	0 max	0 max		
Moisture	ZIMMER Method	ppm	2,000 max	2,000 max	2,000 max	2,000 max	2,000 max		
Melting Point	ASTM D3418	°C	245-249	245-249	250-255	245-249	245-249		
End Product			Water, Cosmetic, Fruit Juice Bottle	Water, Cosmetic, Fruit Juice Bottle, Edible Oill	Hot Fill Bottle	CSD Bottle	5 Gallons		

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Consumer Goods (Injection & Sheet)

Rigid Packaging







InnoPlus: HDPE							
Drepartico	Test Method	Unit		Injec	ction		
Properties	Test Method	Unit	HD1010J	HD1600J	HD2208J	HD2308J	
MFR (190 °C, 2.16 kg)	ASTM D1238	g/10 min	20	12	3.7	6	
Density	ASTM D1505	g/cm³	0.956	0.958	0.961	0.962	
Melting Temperature	ASTM D3418	°C	130	132	134	136	
Tensile Strength at Yield	ASTM D638	kg/cm²	290	280	310	300	
Tensile Strength at Break	ASTM D638	kg/cm²	140	150	220	170	
Elongation at Break	ASTM D638	%	200	210	>1,000	>1,000	
Flexural Modulus	ASTM D790	kg/cm²	12,000	12,500	13,000	15,000	
Notched Izod Impact Strength	ASTM D256	kg.cm/cm	4 (C*)	3 (C*)	5 (C*)	4 (C*)	
Durometer Hardness	ASTM D2240	shore D	64	64	65	65	
Vicat Softening Point	ASTM D1525	°C	122	125	122	125	
ESCR; 25% Igepal, F ₅₀	ASTM D1693	Hours	Initial	Initial	6	5	
UV Stabilizer			No	No	Yes	Yes	
End Produ	Small part, Household p	, Stationery, roducts, Toys	UV added for ou Garbage bins,	tdoor application, Pallets, Crates			

Note : *C = Complete Break *P = Partial Break *NB = Non Break

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DIAREX: PS							
HIPS High Impact							
Dreparties	Test Method	Unit	Injection	Extrusion			
Properties	Test Method	Unit	H350	H350E			
MFR (200 °C, 5 kg)	ASTM D1238	g/10 min	3.5	2.6			
Tonsilo Strongth @ Viold*	ASTM D629	kg/cm²	298	281			
	ASTIM D030	lb/in²	4,250	4,000			
Tensile Elongation*	ASTM D638	%	55	53			
Flexural Strength*		kg/cm²	420	386			
	ASTW D790	lb/in²	6,000	5,500			
Eleveral Madulus (v. 10.000)*		kg/cm²	1.9	1.8			
	ASTW D790	lb/in²	27	26			
Ized Impact Strength*		kg.cm/cm	11	11			
	ASTIM D250	ft.lb/in	2	2			
Rockwell Hardness*	ASTM D785	Scale	R112	R112			
Vicet Coffeeing Daint (1 kg)t		°C	104	101			
vicat sortening Point (Tkg)*	ASTM D1525	°F	219	213			
Deflection Temperaturet (10 E6 kg/am2)		°C	78	76			
Denection remperature" (18.36 kg/CII ⁺)	ASTIVI D048	°F	172	169			
Underwriter Laboratory*	-	-	UL-94HB	UL-94HB			

*Data based on injection molding test pieces.

DIAREX: PS								
GPPS Standard								
Dropartico	Test Method	Unit		Grade				
Properties	Test Method	Unit	THF77	THH102	THH103	TMF35		
Physical Properties Control Co								
MFR (200 °C, 5 kg)	ASTM D1238	g/10 min	8.4	2.6	1.7	4.5		
Density	ASTM D792	g/cm³	-	-	-	1.05		
Vicat Softening Point (1 kg)*	ACTM D1525	°C	101	106	107	104		
	ASTM D1525	۴F	214	223	225	219		
	ASTM D649	°C	78	81	82	79		
Deflection Temperature [*] (18.56 kg/cm ²)	ASTM D648	۴F	172	178	180	174		
Mechanical Properties								
		kg/cm²	470	530	543	485		
Tensile Strength @ Yield*	ASTM D638	lb/in²	6,700	7,500	7,700	6,900		
Tensile Elongation*	ASTM D638	%	2	2.5	2.6	2.0		
		kg.cm/cm	2.2	2.2	2.2	2.2		
Izod Impact Strength*	ASTM D256	ft.lb/in	0.4	0.4	0.4	0.4		
Rockwell Hardness*	ASTM D785	Scale	M80	M80	M80	M80		
Underwriter Laboratory*	-	-	UL-94HB	UL-94HB	UL-94HB	UL-94HB		
Туре	·					GPPS Standard		

*Data based on injection molding test pieces.

PCR HDPE

Rigid Packaging





High-quality and 100% PCR resins which comply with global standard to the market under brand InnoEco.

	InnoEco: PCR HDPE							
Duranting	To a Mathed	11-14	Grade					
Properties	lest Method	Unit	HN035NB	HW035NB	HM035NB	HM035NJ		
Physical Properties								
MFR (190 °C, 2.16 kg)	ASTM D1238	g/10 min	0.35	0.46	0.58	2		
Density	ASTM D1505	g/cm ³	0.963	> 0.970	0.959	0.957		
Mechanical Properties (Based on compression specimens)								
Tensile Strength at Yield	ASTM D638	kg/cm²	300	277	270	270		
Tensile Strength ay Break	ASTM D638	kg/cm²	173	157	160	140		
Elongation at Break	ASTM D638	%	460	490	330	200		
Flexural Modulus	ASTM D790	kg/cm²	13,800	13,700	12,600	12,600		
Notched Izod Impact Strength	ASTM D256	kg.cm/cm	9.3	6	6	4		
ESCR; 25% Igepal, F ₅₀	ASTM D1693	hrs	24	24	-	-		
Color			Natural White	Opaque white	Durple	Gravish-Graan		

Extrusion blow molding, Home & personal care bottles, Lubricant Container

Recommendation: Injection Molding Temperature : 170 - 220 °C Extruder Temperature : 165 - 190 °C Die Temperature : 180 - 195 °C

Application

PCR PET

Rigid Packaging





Injection molding

appliacations of household product

High-quality and 100% PCR resins which comply with global standard to the market under brand InnoEco.

InnoEco: PCR PET								
Dreportion	Test Method Unit		Gra	ade				
Properties	Test Method	Unit	TN080FB	TN085FB				
Physical Properties								
Intrinsic Viscosity (IV)	Relative to ASTM D4603	dl/g	0.80±0.03	0.85±0.03				
Acetaldehyde (AA)	ENV-Method	ppm	Max 1.5	Max 1.5				
Moisture Content	ENV-Method	%	Max 0.2	Max 0.2				
Color Properties								
L*	CIELAB	-	Min 63	Min 70				
b*	CIELAB	-	Max 1.0	Max 1.0				
Application			Food & Beverage, Home & Personal Care Bottles	CSD, Food & Beverage, Home & Personal Care Bottles				

Recommendation:

Barrel Temperature : 270 - 295 °C Drying : 160 - 170 °C, 4 - 6 hrs.

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Website

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Technical Document LINE for Polymer Products Official Account

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Date as of December 2023