



POLYMER

BROCHURE

About Us

Tradeasia International Pte. Ltd. is a privately owned, independent company headquartered in Singapore. We are a global trading organization providing integrated chemical procurement services with certainty and trust, which makes Tradeasia unique.



Tradeasia International was set up with the sole intention of carrying out chemical distribution services especially to commodity industries in many parts of the world. Today, Tradeasia International represents a growing number of businesses that are serving a variety of markets. We source and supply about 500-600 containers monthly to our customers worldwide.

12

Locations

50+

Suppliers

500+

Products

400+

Clients

About Polymer SBU



Polymer is a strategic business unit of Tradeasia International Pte. Ltd. that accommodate various plastic pellets, plastic additives, etc. to supply numerous industries' feedstock needs. Our platform provides a wide-range of polymers product for various applications and initiatives from reliable sources to ensure the quality of our products. Our goal is to link customers anywhere in the world with top feed raw material producers for a seamless and secure trade to fulfil our customers' needs.

Being immersed in polymer distribution over the past decades, Tradeasia has supplied to various packaging, building & construction, and household & consumer good industries. We provide multiple product of polymers such as PVC, Polyethylene, Polypropylene, and Plasticiser. We also provide Purging Material for plastic machineries. We strive to provide an eligible marketplace to ensure top-quality polymer raw material and services through effective supply chain solutions while providing profitable and sustainable growth to all our customers..

We value trust, integrity, commitment, and partnership through an effective solution-oriented management system.

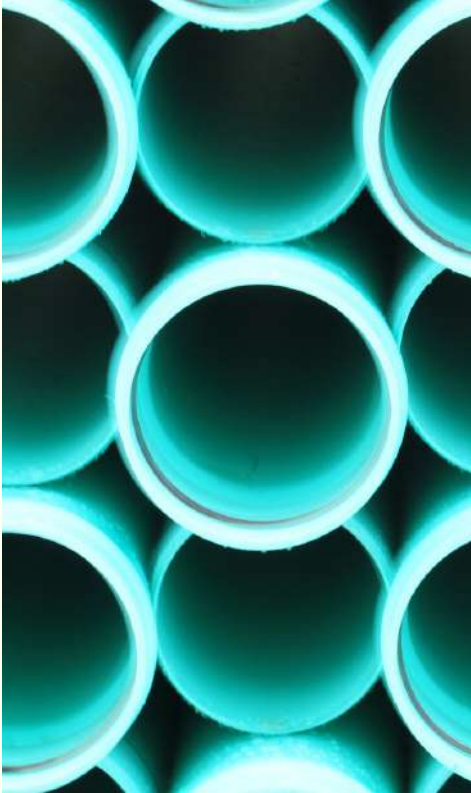




PLASTIC RESINS

POLYVINYL CHLORIDE (PVC)

Polyvinyl chloride (PVC) resin, is a white powder used to produce plastics. It is used to produce thermoplastic resins that are more versatile than other existing thermoplastic materials . This polymer can be considered a unique raw material that can be made into a wide range of products, from soft and soft to light and rigid. PVC resin has good chemical stability and is corrosion-resistant and water-resistant. It has good solubility, electrical insulation, thermoplasticity, and membrane-forming ability.



HS Code	: 3904.10
CAS No.	: 9002-86-2
Origin	: China, Taiwan, Korea, Thailand
Packaging	: 25 KG bag

Specifications :

Parameter	Carbide-based			Ethylene-based		
	SG 3	SG 5	SG 8	SG 3	SG 5	SG 8
K - Value	72 - 71	68 - 66	59 - 55	72 - 74	65 - 67	57 - 59

Applications:



Building & Construction

Because it is strong and resistant to moisture and abrasion, vinyl is ideal for cladding, windows, roofing, fencing, decking, wallcoverings, and flooring.



Packaging

Rigid vinyl is used in blister and clamshell packaging to protect medicines, personal care products and other household goods.



Household

PVC’s affordability, durability and water resistance make it ideal for rain coats, boots and shower curtains.



POLYPROPYLENE (PP)

Polypropylene (PP) is a tough, rigid, and crystalline thermoplastic. It is made from propene (or propylene) monomer. This linear hydrocarbon resin is the lightest polymer among all commodity plastics. PP comes either as homopolymer or as copolymer and can be greatly boosted with additives.

HS Code	: 3902.10
CAS No.	: 9003-07-0
Origin	: Indonesia, Malaysia, Vietnam, Thailand, Korea, Taiwan
Packaging	: 25 KG bag

Specifications :

Parameter	Segment		Melt Index (gr/10 min)	Application
Homopolymer	Yarn		3 - 6	Woben bag, Woven sheets, Rope, Tapes, Strapping, Tarpaulin
	Injection		8 - 12	Furniture, Houseware, Closure, Toy
			20 - 35	Food container, Kitchen utensil, Toy, Household
			40 - 50	Thin-Walled Injection Molding (TWIM)
	Film	BOPP	1.8 - 3.4	BOPP for packaging film
		Thermoforming	0.9 - 2.3	Sheet, Thermoforming
	Nonwoven		25 - 38	Non-woven bag, Spunbond, Wipes
Copolymer	Injection	Random	12	Transparent food container, Transparent household product
		Block	5 - 10	Automotive part , Electrical appliance part, Furniture, Industrial application
			27 - 30	Complicated industrial part , Electrical appliance part, Household products, Washing machine tub
			40 - 43	Electrical appliance parts, Industrial application

HIGH DENSITY POLYETHYLENE (HDPE)

HDPE stands for high-density polyethylene, which is a polymer with ethylene as its monomer. It's a thermoplastic with a high strength-to-weight ratio. HDPE is a highly adaptable plastic with a wide range of uses, from pipes to storage bottles. The melting point of high-density polyethylene is relatively high when compared to other polymers.

HS Code	: 3901.10
CAS No.	: 9002-88-4
Origin	: Indonesia, Malaysia, Thailand, Korea, Taiwan, China
Packaging	: 25 KG bag

Specifications :

Segment	Melt Index (gr/10 min)	Application
Blow Molding	0.23	Small sized containers, household and industrial container, food packaging, pharmaceutical and personal care container
	0.30 - 0.70	Small sized containers, Food and beverage bottle
Film	0.04 - 0.06	General purpose bag
Injection	5.0	Large container and garbage bin, Fruit basket, Pallet and crate, Industrial part, Outdoor application
	8.2	Beverage bottle crate , Pallet, Industrial part for outdoor application
	14.0 - 18.0	General injection part, Household product, Bottle cap and closure, Toy
Pipe	0.06	Pressurized pipe, Water distribution pipe, Subduct conduit, Sanitary and industrial pipe



LINEAR LOW DENSITY POLYETHYLENE (LLDPE)

Linear low-density polyethylene (LLDPE) is a substantially linear polymer with significant numbers of short branches, commonly made by copolymerizing ethylene with longer-chain olefins. It looks similar to HDPE but has lower crystallinity due to a more substantial number of short-chain branches. In the present-day, Linear low-density polyethylene (LLDPE) has successfully replaced Low-Density Polyethylene.

HS Code	: 3901.10
CAS No.	: 25087-34-7
Origin	: Indonesia, Malaysia, Thailand, Korea, Taiwan
Packaging	: 25 KG bag

Specifications :

Segment	Melt Index (gr/10 min)	Application
Film	1.0	Chilled and frozen food packaging, Industrial bag, Outer and cover bag, Agricultural film
	2.0	General purpose bag, Merchandise bag, Printed bag, Small bag, Lamination film
Injection	20	General injection parts, Household product, Lid and bottle closure, Masterbatch carrier
	50	General injection parts, Household product, Lid and bottle closure, Masterbatch carrier
Rotational Moulding	4.0 - 5.0	Water and chemical tank, cool boxes, and traffic cones

LOW DENSITY POLYETHYLENE (LDPE)

Low-Density Polyethylene (LDPE) is made by the co-polymerization of Ethylene using olefins with longer chains. This polymer is different from LLDPE because it has long branches rather than short ones, processed at higher temperatures and pressures, and different molecular weight distribution and linear structure. LDPE is noted for its low temperature flexibility, toughness, and corrosion resistance.



HS Code	: 3901.10
CAS No.	: 9002-88-4
Origin	: Indonesia, Malaysia, Thailand, Korea, Taiwan
Packaging	: 25 KG bag

Specifications :

Segment	Melt Index (gr/10 min)	Application
Film & Coating	2.5	General purpose film, Lamination film, Food packaging film, Foam sheets & air bubble film
	4.0 - 5.0	General purpose clear films, Shrink films, Zipper bag, Food packaging film
	7.0	Coating for all substrate
Injection	22.0	Lids, Houseware, Masterbatches
	50.0	Lids, Houseware, Masterbatches



POLYETHYLENE TEREPHTHALATE (PET)

Polyethylene terephthalate (PET) is a clear, solid, and lightweight plastic belonging to the polyester family. PET is the worlds packaging choice for many foods and beverages because it is hygienic, strong, lightweight, shatterproof, and retains freshness. It is most commonly used for packaging carbonated soft drinks and water.

HS Code	: 390761
CAS No.	: 25038-59-9
Origin	: Indonesia, India, Vietnam, China, Taiwan
Packaging	: 25 KG bag, 1150 KG Jumbo Bag

Specifications :

Segment	Intrinsic Viscosity (dl/g)	Application
Bottle grade	0.76	Drinking Water
	0.80	General Purpose
	0.82	Hot Fill
	0.84	CSD Bottle
	0.88	CSD Fast Reheat

ADDITIVES

DIOCTYL PHTHALATE (DOP)

Dioctyl phalate (DOP) is a colorless, odorless, and oily organic compound. It is a famous plasticizer that has been used for flexible polyvinyl chloride (PVC) plastic production due to its low price. DOP as a plasticizer is known for its good stability to heat and its compatibility to use with PVC resins. It has comprehensive properties, such as high plasticizing efficiency, low volatility, UV resisting property, water-extracting proof, Colds resisting property, and also good softness and electric property.

HS Code	: 291732
CAS No.	: 117-81-7
Origin	: Korea
Packaging	: 190 Kg, Iron Drum

Specifications :

Parameter	Unit	Specification
Color	APHA	Max. 18
Specific Gravity	20/20 C	0.986 ± 0.003
Acid Value	KOH mg/g	Max. 0.02
Ester Contents	wt%	Min. 99.6
Refractive Index	n.25/D	1.485 ± 0.003
Heat Loss	125 C, 3hr, wt%	Max. 0.06

Applications :



Film



Sheet



Leather



Wire



Tarpaulin

DIOCTYL TEREPHTHALATE (DOTP)

Diethyl terephthalate is a diester of terephthalic acid and the branched-chain 2-ethylhexanol. Diethyl terephthalate is environmentally safe thus making it an excellent replacement for diethyl phthalate which was banned from the European market as it has most of the properties of diethyl phthalate less the implications. As a non-phthalate alternative plasticizer, it has excellent heat resistance, viscosity stability, and transparency.

HS Code	: 291739
CAS No.	: 6422-86-2
Origin	: Korea
Packaging	: 190 Kg, Iron Drum

Specifications :

Parameter	Unit	Specification
Color	APHA	Max. 15
Specific Gravity	20/20 C	0.984 ± 0.003
Acid Value	KOH mg/g	Max. 0.03
Ester Contents	wt%	Min. 99.6
Refractive Index	n ₂₅ /D	1.487 ± 0.003
Heat Loss	125 C, 3hr, wt%	Max. 0.10

Applications :



Film



Sheet



Wallpaper



Flooring Sheet



Toys

DIOCTYL ADIPATE (DOA)

Diethyl adipate (DOA) is an oily liquid commonly used as a plasticizer for PVC, and it is light in color and used in combination with other plasticizers or by itself. Moreover, DOA is soluble in oil but not water because of its suitable properties, low cost, and manufacturing. DOA offers low temperature, extreme flexibility and good electrical properties, making it suitable for plasticizers. It also has good heat stability and strong resistance to weathering.

HS Code	: 291712
CAS No.	: 103-23-1
Origin	: Korea
Packaging	: 190 Kg, Iron Drum

Specifications :

Parameter	Unit	Specification
Color	APHA	Max. 15
Specific Gravity	20/20 C	0.927 ± 0.003
Acid Value	KOH mg/g	Max. 0.04
Ester Contents	wt%	Min. 99.6
Refractive Index	n.25/D	1.446 ± 0.003
Heat Loss	125 C, 3hr, wt%	Max. 0.10

Applications :



Film



Sheet



Wallpaper



Flooring Sheet



Toys

PURGING MATERIAL

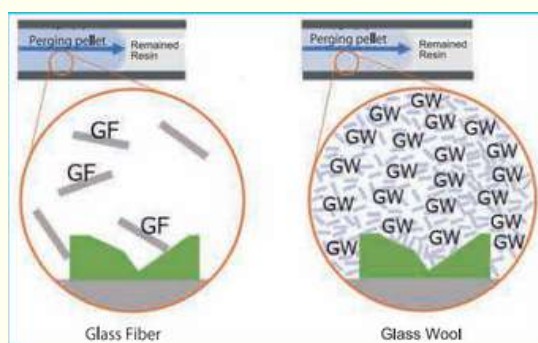
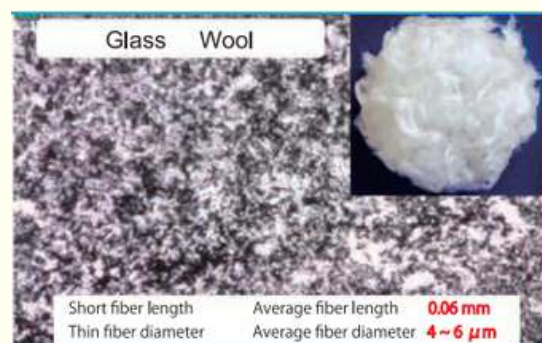
PURGING PELLET

ECOMARU

"Ecomaru" is the purging pellet for plastic injection machine, dedicated to black dot removal improvement, kneading Glass Wool. It is suitable for high quality molded plastic production. Thanks to Glass Wool which is extra fine and flexible, it removes unnecessary substances physical by the glass fibers' edges and suppressing a scratch inside plastic injection machine. By using Ecomaru, the number of shots required for color change can be significantly reduced up to 20 shots & 50 minutes.

Features :

Parameter	Other Products	Ecomaru
Number of Cleaning	2 times (Rinsing required)	1 time (No rinsing)
Cost of Purging Pellet	Purging pellet for rinsing required	Max. approx. 50% reduction
Cleaning Time	Rinsing time required	Shorter time (No rinsing)
Defective Rate	Worse than Ecomaru	Lower rate by high removal power of black dot by glass wool





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