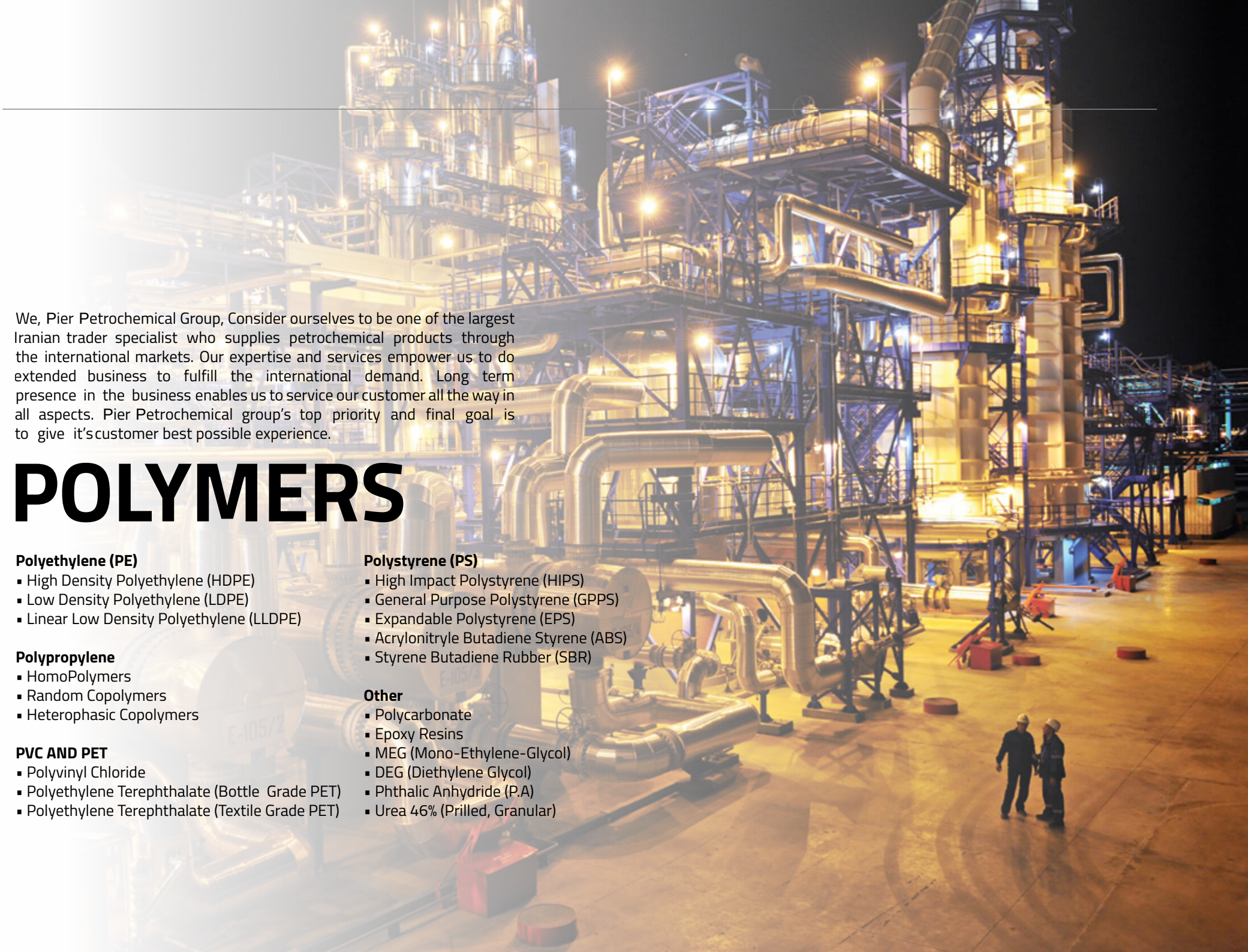




Petrochemical Products Application Catalog

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We, Pier Petrochemical Group, Consider ourselves to be one of the largest Iranian trader specialist who supplies petrochemical products through the international markets. Our expertise and services empower us to do extended business to fulfill the international demand. Long term presence in the business enables us to service our customer all the way in all aspects. Pier Petrochemical group's top priority and final goal is to give it's customer best possible experience.

POLYMERS

Polyethylene (PE)

- High Density Polyethylene (HDPE)
- Low Density Polyethylene (LDPE)
- Linear Low Density Polyethylene (LLDPE)

Polypropylene

- HomoPolymers
- Random Copolymers
- Heterophasic Copolymers

PVC AND PET

- Polyvinyl Chloride
- Polyethylene Terephthalate (Bottle Grade PET)
- Polyethylene Terephthalate (Textile Grade PET)

Polystyrene (PS)

- High Impact Polystyrene (HIPS)
- General Purpose Polystyrene (GPPS)
- Expandable Polystyrene (EPS)
- Acrylonitrile Butadiene Styrene (ABS)
- Styrene Butadiene Rubber (SBR)

Other

- Polycarbonate
- Epoxy Resins
- MEG (Mono-Ethylene-Glycol)
- DEG (Diethylene Glycol)
- Phthalic Anhydride (P.A)
- Urea 46% (Prilled, Granular)

HDPE

High Density Polyethylene

Application:

- ➔ Caps & Closures for Packaging
- ➔ Injection Molding Grades
- ➔ Crates
- ➔ Bottles Caps
- ➔ Containers
- ➔ Wrapping Films
- ➔ Carrier Bags
- ➔ Packing of Pharmaceuticals

POLYETHYLENE

HDPE FILM

Application:

- Blown films with paperlike quality
- Carrier bags
- Counter bags
- Wrapping films
- Food packing

Popular Grade:

- EX5 ,7000F
- HCH5110

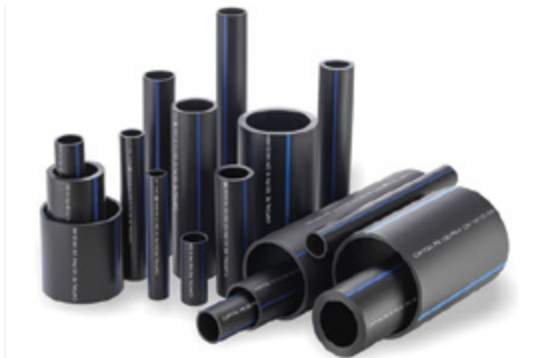
Category	Grade	Characteristics	MFR (190°C/5Kg)	MFR (190°C/21.6Kg)	Density
HDPE	EX5(HM9450F)	Film	0.28	8	0.949
HDPE	HD7000F	Film	0.04(2.16Kg)	----	0.952
HDPE	HF5110	Film	----	10	0.950
HDPE	HD2200J	Injection	5.2 (2.16Kg)	----	0.964
HDPE	HD52518	Injection	18	----	0.952
HDPE	HD52511	Injection	11	----	0.9520
HDPE	HD60505	Injection	5.5	----	0.975
HDPE	HD60507	Injection	7.5	----	0.958
HDPE	HD5030SA	Injection	2.0	----	0.951
HDPE	HD52505UU	Injection	5	----	0.952
HDPE	HD6070EA	Injection	7	----	0.958
HDPE	HD52528	Injection	28	----	0.925
HDPE	BL3(HF4760)	Blow Moulding	1.2	23	0.954
HDPE	BL4(HM8255)	Blow Moulding	0.35	9.5	0.952
HDPE	HB0035	Blow Moulding	0.35(2.16 Kg)	----	0.959
HDPE	EX3 (PE80)	Pipe	0.45	12	0.945
HDPE	CRP100	Pipe	0.23	6.2	0.948
HDPE	4005EA	Pipe	0.5(2.16Kg)	----	0.940
HDPE	3840UA	Roto-Moulding	4(2.16Kg)	----	0.938
HDPE	CC5202	Caps and clouser	2(5Kg)	----	0.952
HDPE	HD5030SA	Caps and clouser	3.1 (5 Kg)	----	0.951
HDPE	HD50005	YARN	0.8 (5Kg)	----	0.954



↘ HDPE PIPE

- Application:**
- Pressure pipes
 - Water pipes
 - Gas pipes
 - waste & sewer pipes

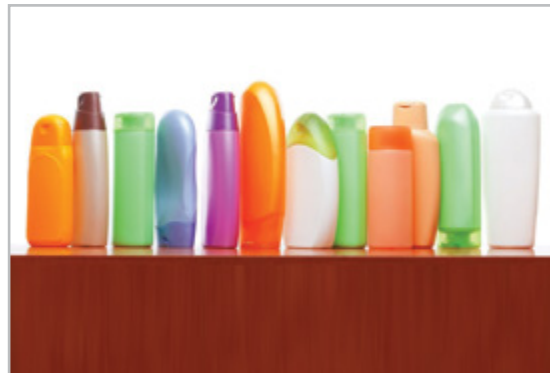
- Popular Grade:**
- EX3(PE80)
 - EX3(PE100)
 - HMCPR 100N
 - HMCPR 100B



↘ HDPE BLOW MOLDING

- Application:**
- Container
 - Blow molding bottles
 - Packing of pharmaceuticals

- Popular Grade:**
- HB0035
 - BL3
 - BL4



↘ HDPE CAPS & CLOUSER

- Application:**
- Hot filled carbonated soft drink
 - Beverage caps,
 - Beverage caps of sparking water

- Popular Grade:**
- CC52502
 - HD5030SA



↘ HDPE INJECTION

- Application:**
- Fish boxes
 - Crates and tote boxes
 - House wares

- Popular Grade:**
- HD2200J
 - HD52511
 - HD60507
 - HD52505UU
 - HD52528
 - HD52518
 - HD60505
 - HD5030SA
 - HD6070EA



↘ HDPE YARN

- Application:**
- Fishing net
 - Rope
 - Tarpaulin
 - Woven sack

- Popular Grade:**
- HD5000S



↘ HDPE ROTOMOLDING

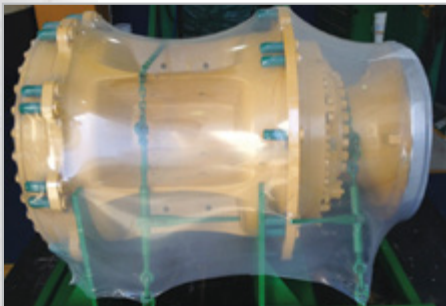
- Application:**
- Large containers
 - Septic tanks

- Popular Grade:**
- HD3840UA
 - 38504UV



LDPE FILM

- Application:
- Shrink films
 - Heavy duty carrier bags
 - Bags and pouches
 - Agricultural films
 - Construction films



LDPE

Low Density Polyethylene

- Application:
- Food packing
 - Shrink film
 - Cast film –Bags and pouches,
 - Carrier bags
 - General purpose bags

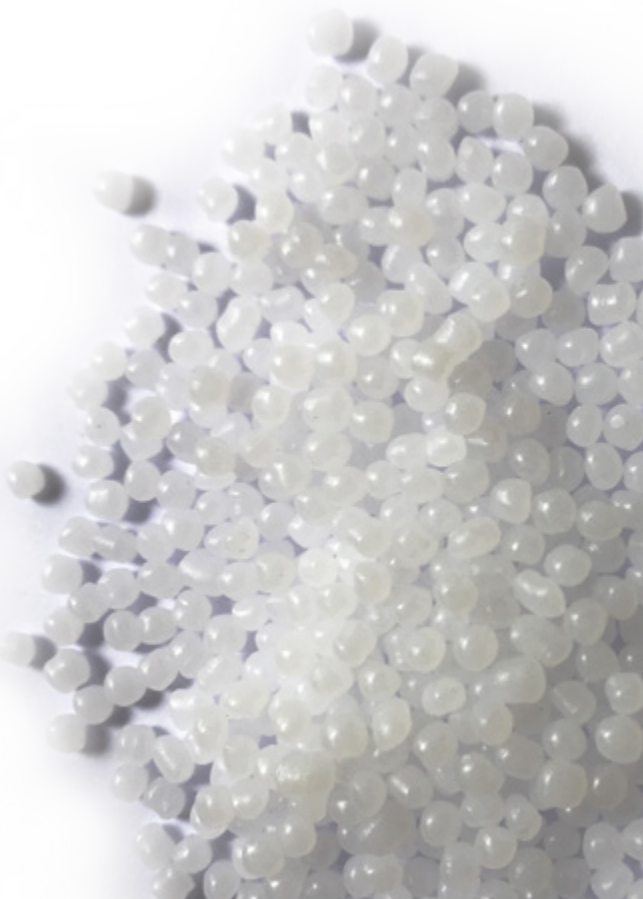
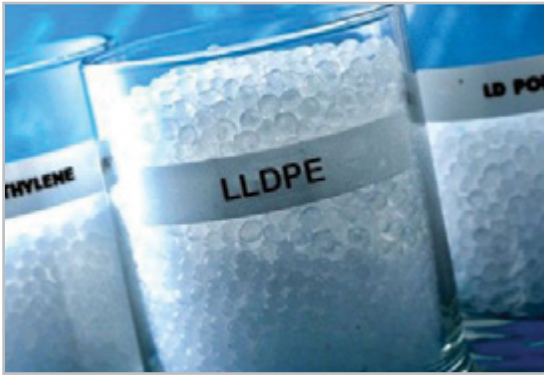
Category	Grade	Characteristics	MFR (190°C/5Kg)	Density
LDPE	LH0075	----	0.75 (0.75 Kg)	0.922
LDPE	2420F	----	0.75(2.16Kg)	0.923
LDPE	2101TN47	----	085 (2.16 Kg)	0.921
LDPE	LF0190	----	1.9 (2.16Kg)	0.924
LDPE	2420H	----	1.9 (2.16 Kg)	0.924
LDPE	L2J02TN42	----	1.9 (2.16 Kg)	0.921
LDPE	L2102TX00	----	1.9 (2.16 Kg)	0.921
LDPE	LF2119	----	1.9 (2.16 Kg)	0.921
LDPE	LF0200	----	2(2.16 Kg)	0.922
LDPE	2420K	----	4(2.16 Kg)	0.924
LDPE	2004TX37	----	4.7(2.16 Kg)	0.921
LDPE	L1922T	----	22 (2.16 Kg)	0.921
LDPE	2420D	FILM	0.25(2.16Kg)	0.923
LDPE	L2100TN00	FILM	0.3 (2.16Kg)	0.921

LLDPE

Linear Low Density Polyethylene

- Application:
- Shipping Sacks ,Garbage Bags ,Heavy duty plastic bags
 - Consumer Packaging ,Freezer bags and hand bags
 - Agricultural Films
 - Stretch Film

Category	Grade	Characteristics	MFR (190°C/5Kg)	Density
LLDPE	LL0209AA/KJ	Bown Film	0.9	0.920
LLDPE	LL22501AA/KJ	Bown Film	0.95	0.922
LLDPE	LL16501AA/KJ	Bown Film	0.95	0.916
LLDPE	LL22502AA/KJ	Bown Film	1.8	0.922
LLDPE	LL16502AA/KJ	Strech Film	2	0.916
LLDPE	LL0220AA/KJ	Strech Film	2.4	0.92
LLDPE	LL16503AA/KJ	Strech Film	3	0.916
LLDPE	LL32604UV	Roto-Moulding	4	0.932
LLDPE	LL22802AA	----	2(2.16Kg)	0.92
LLDPE	LL22403	----	2.80(2.16Kg)	0.92



➤ PP(HOMO POLYMER)

Application:

- Heavy duty jumbo bags
- Furniture,caps
- Closures ,Toys

Popular Grade:

- HP550J
- HP552R
- HP525J
- HP564S
- C30S
- ZH510L
- ZR348U
- ZR348U
- Z30S
- Z30G
- 1102XL
- 1102XK



Category	Grade	Characteristics	MFR (g/10min)	Density
Homopolymer	HP550J	Raffia	3.2(2.16 Kg)	0.9
Homopolymer	HP552R	Fiber	25	0.9
Homopolymer	HP525J	Film-BOPP Cast	3	----
Homopolymer	HP564S	Fiber Extrusion	35	----
Homopolymer	C30S	----	6(2.16 Kg)	0.9
Homopolymer	ZH510L	----	5-7 (2.16 Kg)	0.9
Homopolymer	ZR348U	----	7-10 (2.16 Kg)	0.9
Homopolymer	Z30S	----	25 (2.16Kg)	0.9
Homopolymer	Z30G	----	25 (2.16 Kg)	0.9
Homopolymer	HP552R	----	25 (2.16 Kg)	0.9
Homopolymer	1102XL	----	5.5 (2.16 Kg)	0.9
Homopolymer	1102XK	----	4 (2.16 Kg)	0.9
Random Copolymer	RP 340N	Injection Moulding	10	----
Random Copolymer	RP 270G	Extrusion	1.8	----
Random Copolymer	RP 300D	Extrusion & Thermoforming	0.6	----
Random Copolymer	RP 340R	Injection Moulding	25	----
Random Copolymer	RP345S	----	38(2.16Kg)	0.9
Impact copolymer	EP 548R	Injection Moulding	21(2.16 Kg)	0.9
Impact copolymer	EP 448S	Injection Moulding	40	----
Impact copolymer	EP 440L	Injection Moulding	6 (2.16 Kg))	0.9
Impact copolymer	EP440G	----	1.3 (2.16Kg)	0.9
Impact copolymer	EP548T	----	50(2.16Kg)	0.9
PP PIPE	MR230	----	1.05(2.16 Kg)	0.9
PP PIPE	PNR230C	----	0.3(2.16 Kg)	----
PP PIPE	ZR230C	----	1.7(2.16 Kg)	0.9
PP PIPE	3212E		0.25 (2.16 Kg)	0.9



PP

Polypropylene

Application:

- ➔ Tapes & Strapping
- ➔ Thermoforming such as Vending Cups, Packaging Dairy Products & Trays
- ➔ Medical Sanitary & disposable syringes
- ➔ transparent bottles & containers for blood
- ➔ Wipes & Tissues
- ➔ Fabrics for Diapers
- ➔ Bulk Continuous Filament for Carpets
- ➔ Woven Bags
- ➔ Household Articles
- ➔ Cosmetics & Pharmaceutical Products
- ➔ Small Diameter Pipes & Semi Finished Products & Profiles
- ➔ Battery Cases & Large Toys
- ➔ Paint Pails& Buckets
- ➔ Food containers

➤ PP(Copolymer)

Application:

- Lamination
- Packing of stationery
- Packaging of food
- Containers
- Filters

Popular Grade:

- RP 340N
- RP 270G
- RP 300D
- RP 340R
- RP345S
- EP 548R
- EP 448S
- EP 440L
- EP440G
- EP548



➤ PP(Pipe)

Application:

- Industrial pressure pipe
- Hot &Cold water supply
- Service pipes
- Industrial water converage

Popular Grade:

- MR230
- PNR230C
- ZR230C
- 3212E



POLYETHYLENE TEREPHTHALATE



Category	Grade	Characteristics	Intrinsic Viscosity(IV)	Melting Point	Acetaldehyde Content (AA)
Bottle	BG-781	High Impact Resistance, Metal Plating	0.72 ± 0.02	248 ± 2	<1
Bottle	BG-800	High Impact Resistance	0.80 ± 0.02	248 ± 2	<1
Bottle	BG-821	Ultra Impact Resistance	0.82 ± 0.02	248 ± 2	<1
Bottle	BG-825	High Heat Resistance, Self Extinguished	0.82 ± 0.02	249 ± 2	<1

PET

Polyethylene Terephthalate

Application:

- Mineral water packing all kinds of carbonated drinks
- Carbonated water
- Alcoholic beverage
- Edible oil, juice, sport drinks, soy sauce, beer bottles
- Small jars
- Pharmaceuticals



PVC

Polyvinyl Chloride

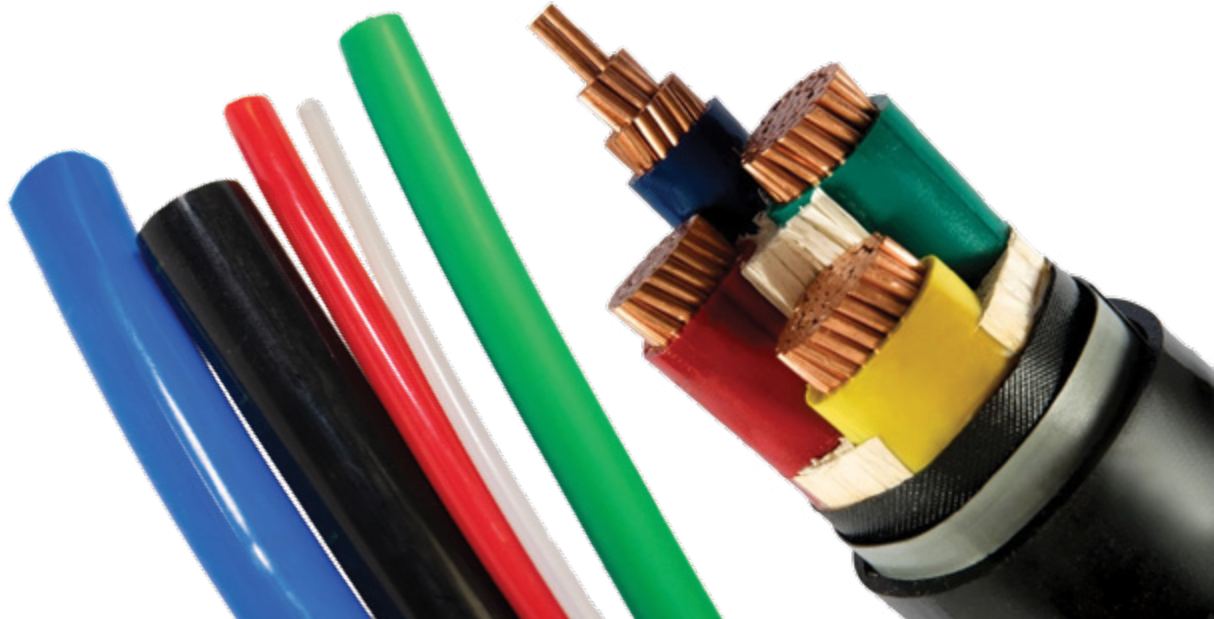
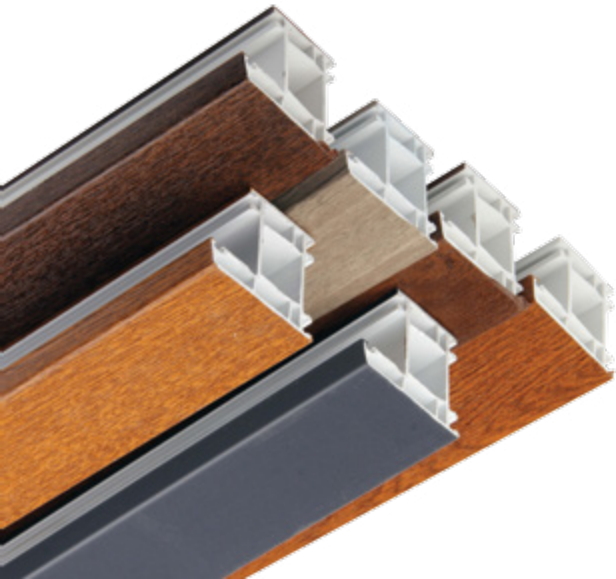
Application:

- Rigid Profile
- Sheets
- Pipes
- Doors, Windows & Tubes Manufacturing
- Cables & Wires Manufacturing
- Extrusion of Flexible Sections & Hoses

Category	Grade	K-Value	Inherent Viscosity (IV)	Bulk Density (gr / Lit)
Suspension	S58	58 ± 1	0.67-0.72	540-600
Suspension	S60	60 ± 1	0.74-0.79	520-580
Suspension	S65	65 ± 1	0.85-0.91	550-610
Suspension	S67	67 ± 1	0.91-0.95	550-610
Suspension	S70	70 ± 1	0.98-1.02	450-510
Emulsion	E68	67 - 69	-	-



POLYVINYL CHLORIDE



POLYSTYRENE



Category	Grade	Characteristics	Melt Flow Index	Izod Impact	VICAT Softening Point	Residual Monomer
Normal	HIPS-7240	High gloss, High-Impact	3.5-5.5	8.5-11	94-97	MAX 500
Normal	HIPS-8350	High gloss, High-Impact	3.5-5.5	9-13	92-96	MAX 500
Normal	HIPS-7350	ESCR	3.5-5.5	9-12	93-94	MAX 500



HIPS

High Impact Polystyrene

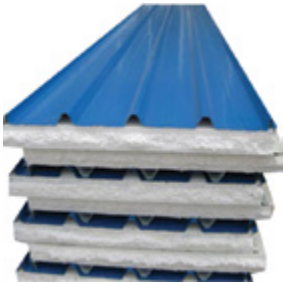
- Application:**
- Miscellaneous Goods
 - Daily Supplies
 - Food Containers
 - Cups, Trays and Egg Boxes
 - Electronic Parts
 - Fridge Doors & Cabinet Liners
 - Packaging for Fatty Foods Sheets

EPS

Expandable Polystyrene

- Application:**
- Shape Molding
 - Self-Extinguishing Block
 - Insulation
 - Cups
 - Ice Boxes
 - Fish and Fruit Containers
 - Building Materials
 - Sandwich Panels

Category	Grade	Characteristics	Grain Size (mm)	Grain Size (mm)	Optimum Expansion Multiple	Pentane Content %
General	EPS WP526	Water Proof	0.3~0.5	0.3~0.5	52~57	5.5~6
General	EPS FC522	Fast Cycling	0.3~0.5	0.3~0.5	52~57	5.5~6
Flame Retardant	F-1000	FR	1.4~1.8	1.4~1.8	52~57	5.5~6.5
Flame Retardant	F-2000	FR	1~1.25	1~1.25	52~57	5.5~6.5
Flame Retardant	F-3000	FR	0.8~1.00	0.8~1.00	52~57	5.5~6.5
Flame Retardant	F-4000	FR	0.5~0.8	0.5~0.8	52~57	5.5~6.5
Self-Extinguish	F-550	FR	0.3~0.5	0.3~0.5	25~45	6~7
Self-Extinguish	F-450	FR	0.5~0.71	0.5~0.71	30~50	6~7
Self-Extinguish	F-350	FR	0.71~0.84	0.71~0.84	30~50	6~7
Self-Extinguish	F-250	FR	0.84~1.2	0.84~1.2	40~60	6~7
Self-Extinguish	F-150	FR	1.2~1.8	1.2~1.8	50~70	6~7



POLYSTYRENE



Category	Grade	Characteristics	Melt Flow Index	Tensile Strength	VICAT Softening Point	Elongation at Break
GPPS	1540	General Purpose Easy Flowing Crystal	19-13	42	89.6-91	2
GPPS	1560	Hight Heat Resistance Molecular Weight Crystal	5~7.5	48	101-103	1
GPPS	1160	Hight Heat Resistance Molecular Weight Crystal	1.8-3.2	48	101-105	3
GPPS	GP06	Hight Molecular Weight	1.6-2.3	430	102-104	2
GPPS	GP15	Hight Molecular Weight General purpose	3-5	430	91-96	2
GPPS	GP16	Hight heat, High molecular General purpose	1.7~2	520	101-104	2
GPPS	GP26	Hight Resistant, Easy Flow	6-7	520	99-103	2.5
GPPS	GP35	General Purpose Easy Flowing Crystal	11-13	520	96	2
GPPS	GP45	General purpose	18-20	390	89-91	2

GPPS

General Purpose Polystyrene

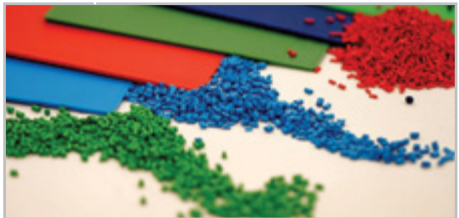
- Application:**
- Disposable Cups & Food Containers
 - Optical Disk Case
 - Daily Supplies
 - Building Materials
 - Electronic Parts
 - Pen Bodies
 - Shower cabinet

ABS

Acrylonitrile Butadiene Styrene

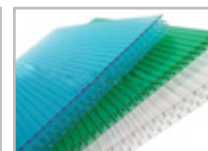
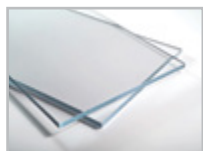
- Application:**
- Automotive/Interior
 - front and rear TV frames
 - car batteries
 - hair dryer tubes
 - Home appliances
 - Miscellaneous goods
 - Toys
 - Building materials
 - Stationery
 - Refrigerator
 - Luggage/suitcases
 - Safety helmets
 - Shoe Heels

Grade	Vicate Softening	Izod impact	MFR
ABS150	99	22	1.7
ABS140	97	23	3.2
ABS-50	95	23	3.4





Category	Grade	Characteristics	Melt Flow Index	Density g/cm ³	VICAT Softening Temp	Elongation
General	PC-0710	Injection Molding & Extrusion	7-10	1.2	142-147	>90
General	PC-1012	Injection Molding & Extrusion	10.1-12	1.2	142-146	>90
General	PC-1215	Injection Molding	12.1-15	1.2	141-145	>80
General	PC-1518	Injection Molding	15.1-18	1.2	141-145	>80
General	PC-1822	Injection Molding	18.1-22	1.2	140-144	>80



PC

Polycarbonate

Application:

- Suitable for Molding, Injection & Extrusion
- Packaging
- Electrical
- Lighting
- Automotive
- Optical Lenses
- Construction & Housing
- windows

PA

Phthalic Anhydride

Application:

- alkyd resins for paints and varnishes
- plasticizer resins
- dye intermediate, pigment
- manufacture of phthaleins
- polyester resins



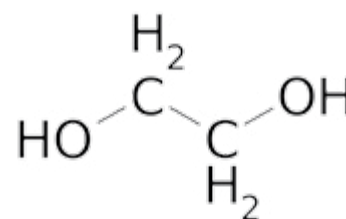
DEG

Diethylene Glycol

Application:

- unsaturated polyester resins
- polyester polyols
- lubricant and coupling agents
- plasticizers
- humectants and dehydrating agents
- solvents

Diethylene glycol is used as a dehydrating agent for natural gas; a raw material for the production of plasticizers and polyester resins; a humectant; a textile lubricant and coupling agent; a solvent in textile dyeing and printing; a constituent of hydraulic fluids; a plasticizer for paper, cork and synthetic sponges; a solvent in printing inks; a raw material for the production of esters used as emulsifiers, demulsifiers, and lubricants; a selective solvent for aromatics in petroleum refining.



MEG

Mono-Ethylene-Glycol

Application:

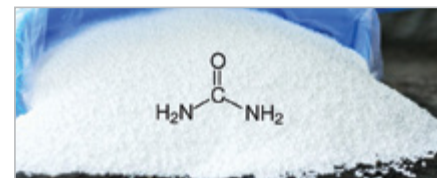
- Coolant & Antifreeze,
- Polyester fibers & films & low-Freezing
- Dynamite
- Synthesis of Polyethylene Terephthalate (PET)
- Wetting and plasticizing agent in the production of cellophane, glues and adhesives, textiles, printing ink, leather, cosmetics, paper and pharmaceutical products.

Urea

Prilled
Granular

Application:

- Chemical fertilizers
- Urea formaldehyde resins





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