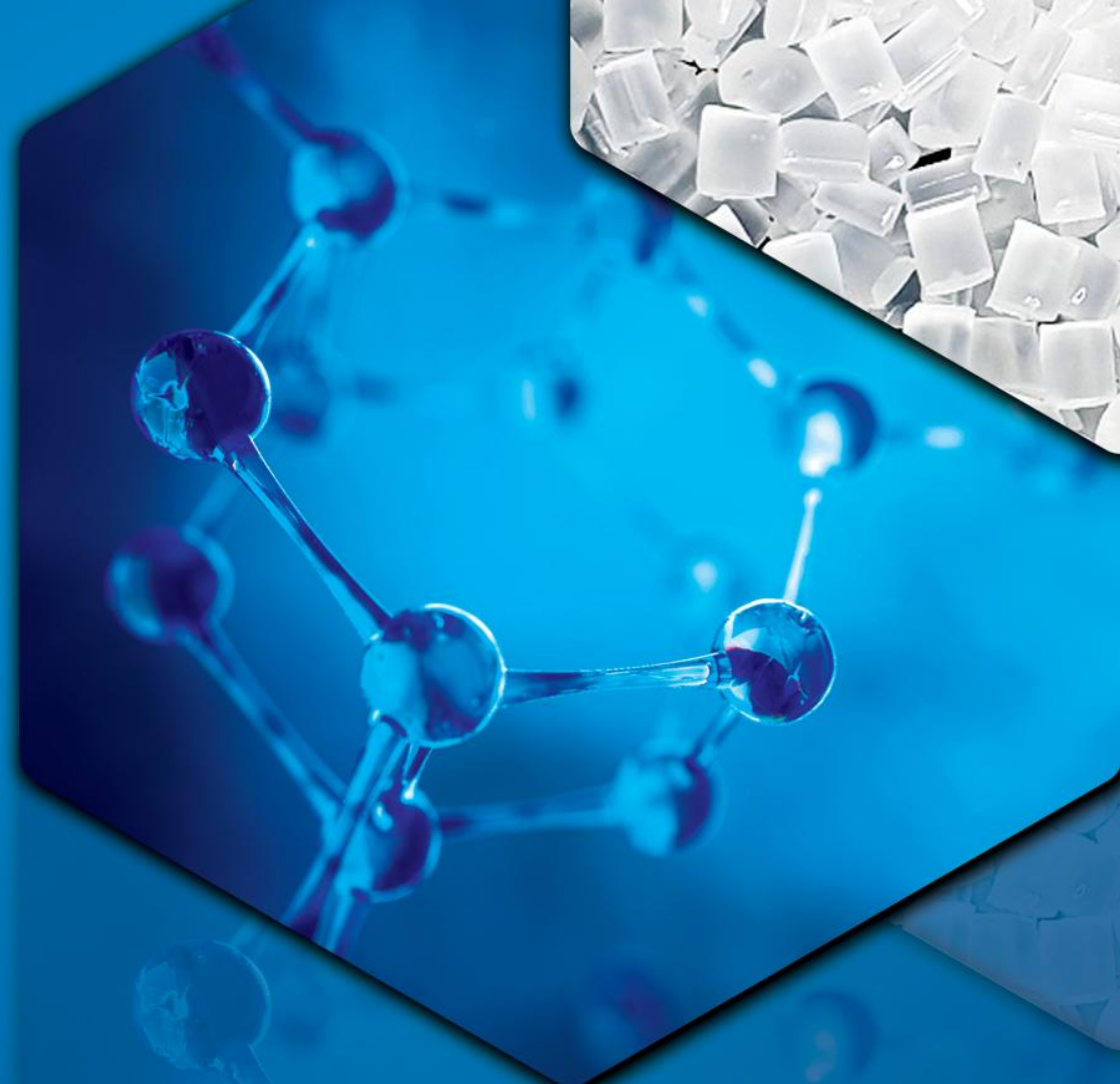


Arena chemical
Producer & Supplier Of
Petrochemical
& Chemical
Materials

Polymer Raw Materials
TRADING SERVICES



POLYMER
CATALOG



WWW.ARENA-CHEMICAL.COM

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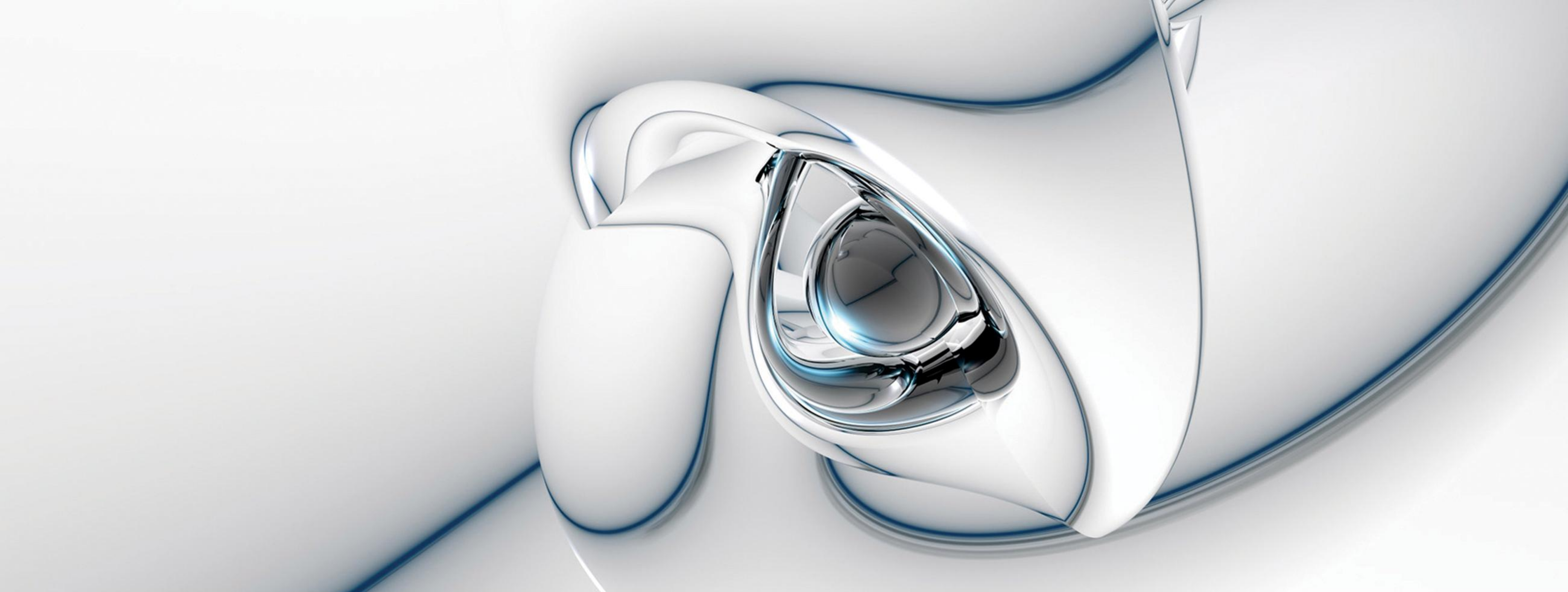
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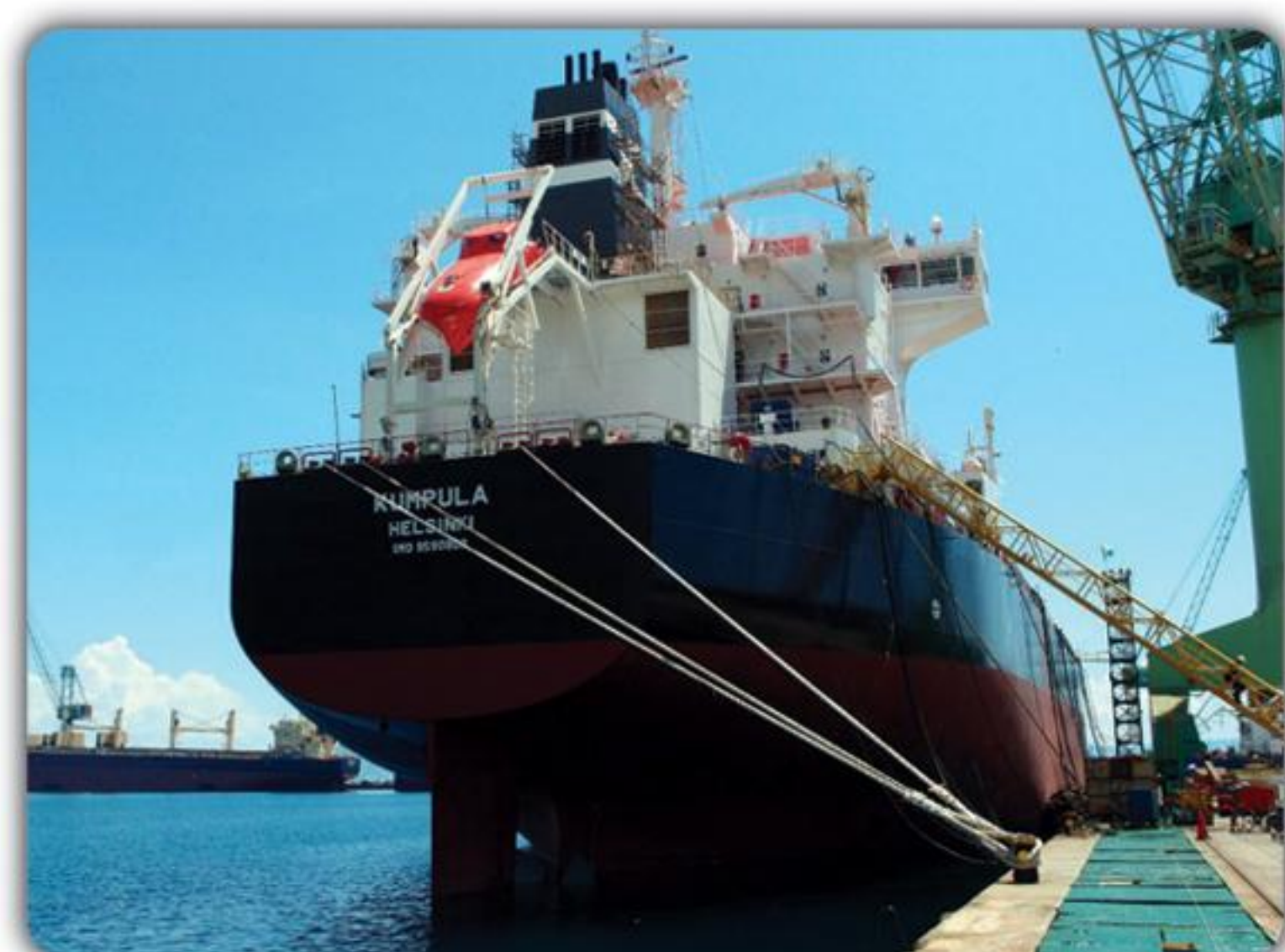
Vision & Mission

VISION

• According to the development of the polymer industry markets and the complexities of the supply chain, the need of identifying and responding to the demands of producers and customers is seriously essential. Having such vision, we, Arena Petro Gas, with respect to long-term business in the market of polymer and petrochemical products, our professional team empowers us to provide supply services to our customers and vendors on a very global scale so they can experience high quality services.

MISSION

- Supply the Iranian petrochemical grades directly from the petrochemical manufacturing complexes with an engineered sale process. Being registered in many petrochemical companies, we are able to attend the tenders and make safe purchases on behalf of customers.
- Produce compound polymer and engineered polymers
- Arrange logistics and engineered transportation services for our customers from the plant to their final destination. Considering the most economical way for our customers, our skilled and experienced logistics team enable us to offer the best delivery to our customers. Our offices and representatives in different cities and countries enable us to offer mixed logistics as well.
- With all our facilities and partners outside Iran, our customers can experience a very swift and safe way of payment for every single order they have from us. We are able to get the payments in many countries like UAE, Turkey, China, Canada and, so on, in different currencies.



PE Polyethylene

HDPE
MDPE
LDPE
LLDPE



Polyethylene or polythene (PE) is the most commonly produced plastic which has a broad application spectrum. It is used for plastic containers, bottles, bags, plastic toys, films, tubes, plastic parts, laminates, trash, and grocery bags, agricultural mulch, wire and cable insulation, squeeze bottles, etc.



HDPE Film

High Density Poethylene Film

- Applications:
 - Food Packing
 - Wrapping Films
 - Blown Films With Paper Like Quality
- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm³)
7000 F	0.05	190/2.16	0.952
HFI 5110	10	190/21.6	0.951
EX5 (HM9450F)	8	190/21.16	0.949

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





HDPE Pipe

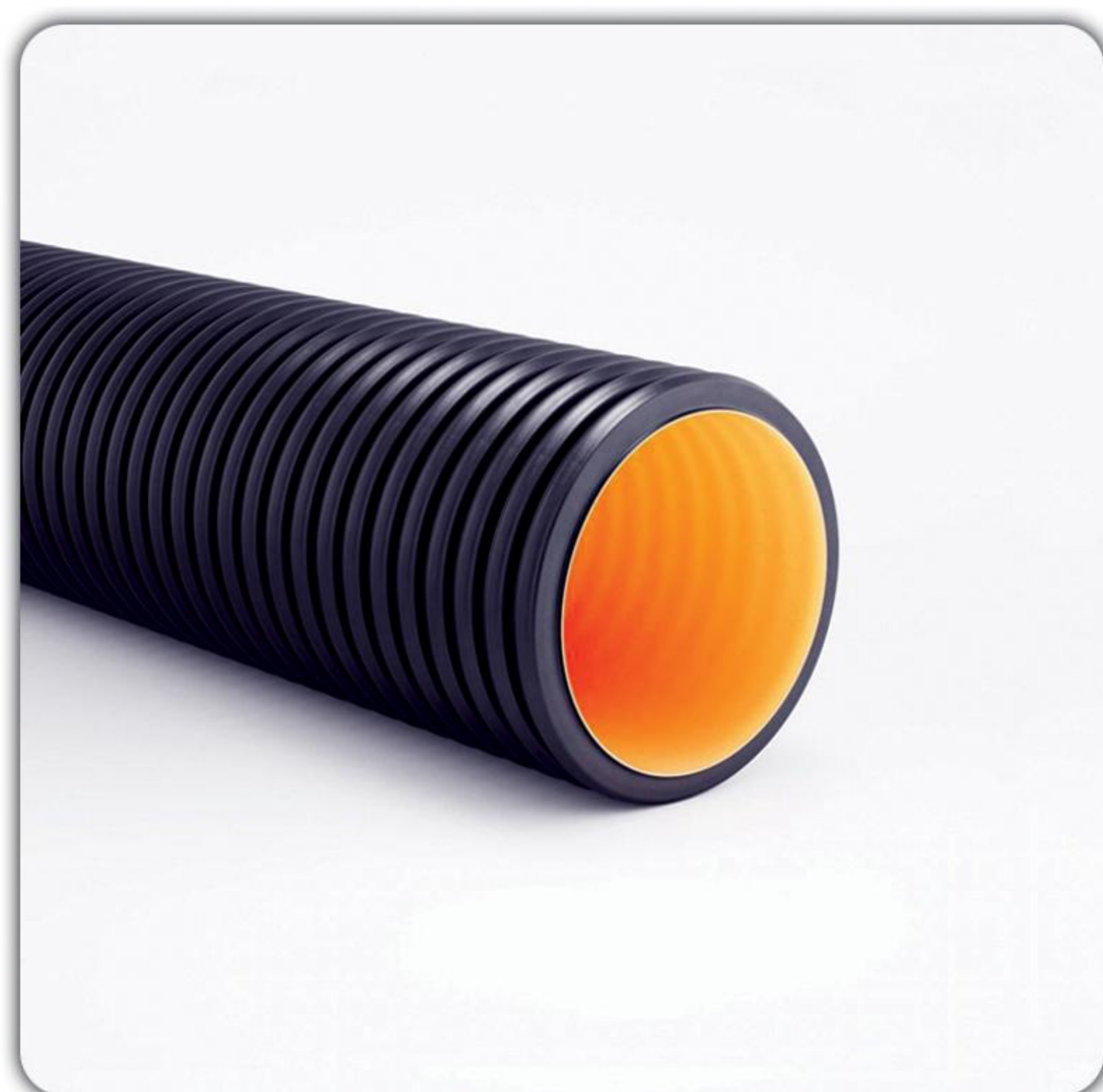
High Density Polyethylene Pipe

- Applications:
 - Waste And Sewer Pipes
 - Gas Pipes
 - Water Pipes
 - Pressure Pipes
 - Agricultural Pipe

- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm ³)
EX3 (PE 80)	12	190/21.6	0.944
EX3 (PE 100)	12.3	190/21.6	0.948
CRP100 (HMCRP100N)	6.2	190/21.6	0.948
CRP100B (HMCRP100B)	6.2	190/21.6	0.957
HEX 4460 PE 80+	6	190/21.6	0.944

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





HDPE Blow Molding

High Density Polyethylene Blow Molding

- Applications:
 - Blow Molding Bottles
 - Extrusion Blow Molding
 - Containers
 - Fuel Tanks, Non-Fuel Reservoirs
 - IBC
 - Jerrycan
 - Open-Top Drum
 - Packing Of Pharmaceutical
- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm³)
BL3	23	190/21.6	0.954
BL4	9.5	190/21.6	0.951
HD0035	0.28-0.43	190/21.6	0.954
HBM5510	10	190/21.6	0.955

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





HDPE Injection

High Density Polyethylene Injection

- Applications:
 - House Wares
 - Fish Boxes
 - Crates And Tote Boxes
- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm³)
52505UV	5	190 c/2.16	0.952
52518	18	190 c/2.16	0.952
60505UV	7.5	190 c/2.16	0.958
6070UA	7	190 c/2.16	0.958

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





HDPE Caps & Closures

High Density Polyethylene Caps & Closure

- Applications:
 - Beverage Caps
 - Hot Filled And Carbonated Soft Drink
 - Beverage Bottles Caps Of Sparkling Water
- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm³)
HD5030 SA	3.1	190/2.16	0.951
52505 (CC52502)	2	190/2.16	0.952

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





HDPE Yarn

High Density Polyethylene Yarn

- Applications:
 - Rope
 - Trampoline
 - Fishing Net
 - Woven Sack
- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm³)
5000 S	0.8	190 c/2.16	0.954

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





MDPE

Medium Density Polyethylene

- Application:
 - Film (Film Blowing)
 - Geomembrane
 - Packaging, Shopping & Career bags
 - Agricultural, Building & Construction
 - Mining Industry
- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm³)
MFI 3313	13	190/21.6	0.933
MFI 3713	13	190/21.6	0.937
MFI 3820	20	190/21.6	0.938
3840 UA	0.04	190/21.6	0.938

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





LDPE

Low Density Polyethylene

• Applications:

- General Purpose Bags
- Carrier Bags
- Shrink Films
- Heavy Duty Carrier Bags
- Bags & Pouches
- Agricultural Bags
- Construction Films
- Food Packing
- Cast Film

• Packing: 25 KG Bags

Grade	Application	MFI	· c / Kg	Density (g/cm ³)
LFI 2047 A	Film	4.7	190/2.16	0.920
LFI 2119	Film	1.9	190/2.16	0.921
LFI 2130	Film	0.3	190/2.16	0.921
LIM 1922	Injection Molding	22	190/2.16	0.010
LH 0075	Injection Molding	0.85	190/2.16	0.919-0.922
LF 0200	Injection Molding	1.2	190/2.16	0.920
2420 H	Cast / Blown Film	1.9	190/2.16	0.924

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





LLDPE

Linear Low Density Polyethylene

- Applications:
 - Heavy Duty Plastic Bags
 - Freezer Bags
 - Hand Bags
 - Packing
 - Agriculture Bags
- Packing: 25 KG Bags

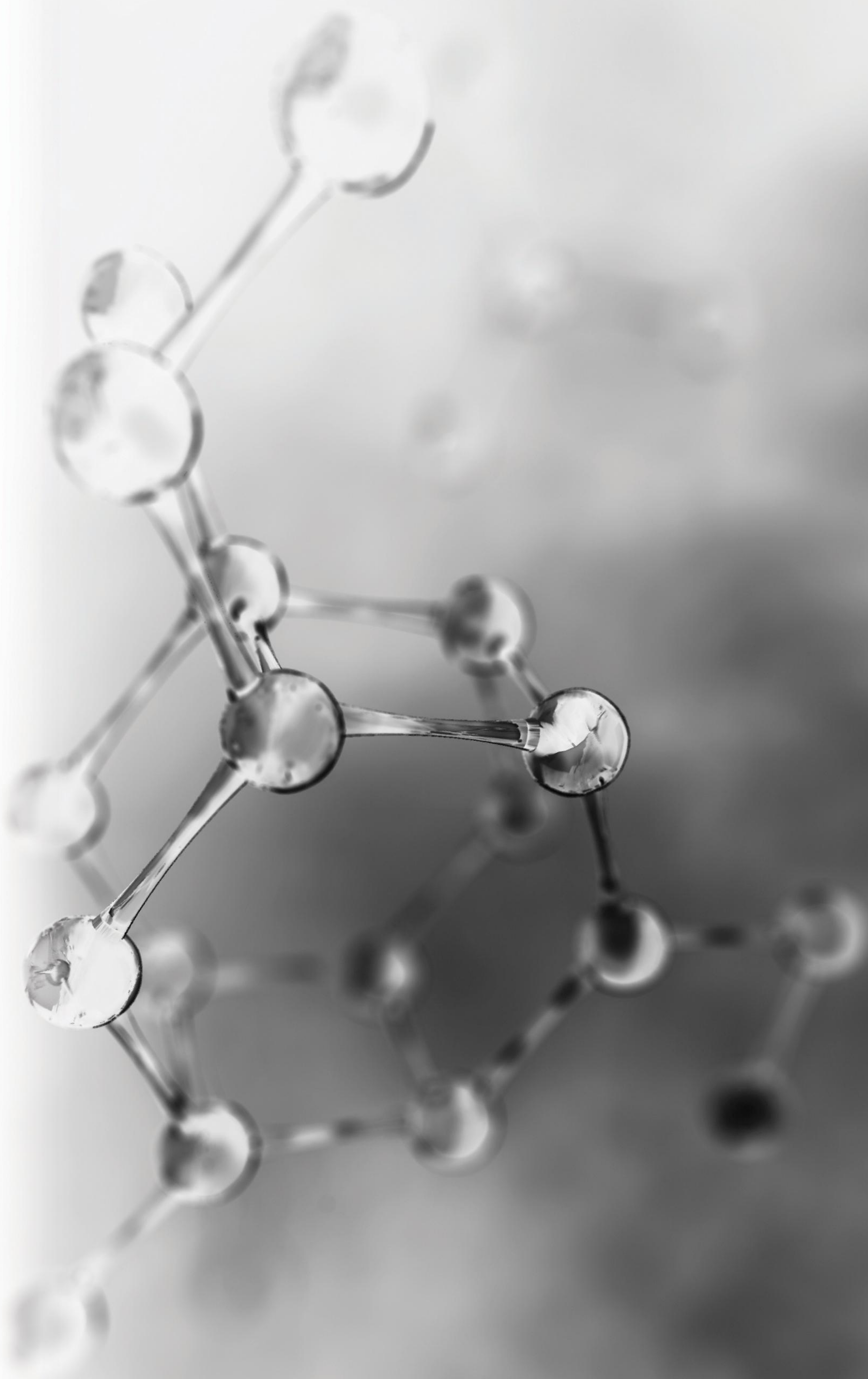
Grade	MFI	· c / Kg	Density (g/cm ³)
LL0209AA	0.9	190/2.16	0.920
LL0209KJ	0.9	190/2.16	0.921
LL22B01/02/03	0.8-1.2	190/2.16	0.920-0.924
LL220AA/KJ	2.2	190/2.16	0.920

The available grades are not limited to the selection above. For more grades, contact us or visit our website.



PP Poly Propylene

**Homopolymer
Copolymer
Pipe**



Polypropylene (PP) is a thermoplastic “addition polymer” made from the combination of propylene monomers. It is used in a variety of applications to include packaging for consumer products, plastic parts for various industries including the automotive industry, special devices like living hinges, and textiles.



PP Homopolymer

Polypropylene Homopolymer

- Applications:
 - Heavy Duty Plastic Jumbo Bags
 - Furniture
 - Caps
 - Closures
 - Toys
- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm³)
HP 550 J (PP Raffia)	3.2	230/2.16	0.9
HP 552 R (PP Fiber)	25	230/2.16	0.9
RP 210 G	1.8	230/2.16	0.9
C30S	6	230/2.16	0.9

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





PP Copolymer

Polypropylene Copolymer

- Applications:
 - Lamination
 - Packaging of Stationary
 - Packaging of Food
 - Filters
 - Containers
- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm³)
EP 548 R	21	230/2.16	0.9
EP 440 G	1.3	230/2.16	0.9
EP 440 L	0.6	230/2.16	0.9

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





PP Pipe

Polypropylene Pipe

- Applications:
 - Service Pipes
 - Hot & Cold Water Supply
 - Industrial Water Conversance
- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm³)
MR 230	1.05	230 c/2.16	0.954

The available grades are not limited to the selection above. For more grades, contact us or visit our website.



Polystyrene

GPPS
HIPS
EPS

Polystyrene (PS), a hard, stiff, brilliantly transparent synthetic resin is widely employed in the food-service industry as rigid trays and containers, disposable eating utensils, and foamed cups, plates, and bowls. Polystyrene is also copolymerized, or blended with other polymers, lending hardness and rigidity to a number of important plastic and rubber products.



GPPS

General Purpose Polystyrene

- Applications:
 - Shower Cabinet
 - Disposable Cups
 - Food Containers
 - Pen Bodies
 - Plastic Bangles
 - Stationary Products
- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm ³)
GPPS 1161	4	200/5	104
GPPS 1160	2.5	200/200	105
GPPS 1540	11	200/200	91
GPPS 1077	7	200/5	100
G300	3-5	200/5	1.04

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





HIPS

High Impact Polystyrene

- Applications:
 - Shower Cabinet
 - Disposable Cups
 - Food Containers
 - Toilet Seats And Tanks, Closures, Instrument Control Knobs
 - Yoghurt Pots
 - Refrigerator Linings
 - Vending Cups
 - Bathroom Cabinets
 - Pen Bodies
- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Density (g/cm ³)
HIPS 7240	4.5	200/5	97
HIPS 7055	4.4	200/5	92
HIPS 3163	16	200/5	85
HIPS 4125	12	200/5	93

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





EPS

Expanded Polystyrene

- Applications:
 - Rigid Insulation Boards
 - Panel Applications
 - Low Density Housing And Construction Blocks
 - Civil Engineering

- Packing: 25 KG Bags

Grade	Bead Size (MM)	Density (g/cm ³)
HS 121	1.8-2.5	13-15
F 1000	1.4-2	11-12
F 100	1.2-1.8	7-12
F 450	0.3-0.47	17

The available grades are not limited to the selection above. For more grades, contact us or visit our website.



ABS

**Acrylonitrile
Butadiene
Styrene**

- A High degree of rigidity
- Good impact resistance at a wide range of temperature
- Good insulation, weldability, and strain restraint
- A High degree of stability and strength

As well as its uses in computer keyboard components and LEGO bricks, ABS is commonly used to make plastic face guards for wall sockets and protective housing for power tools. It is commonly used in the automotive field too, for items such as plastic alloys and decorative interior car parts and pipe fittings.



ABS

Acrylonitrile Butadiene Styrene

- Application:
 - Printing
 - Office Supplies
 - Home Appliances Casing
 - Heat Resistant Home

- Packing: 25 KG Bags

Grade	MFI	· c / Kg	Vicat Softening
SD 0150	1.8	220/5	98
ABS 40/50/70	25-35-14	220/10	92-95-100

The available grades are not limited to the selection above. For more grades, contact us or visit our website.



PVC

Poly Vinyl Chloride

**PVC Suspension
PVC Emulsion**

PVC is a versatile material that offers many possible applications including window frames, drainage pipes, water service pipes, medical devices, blood storage bags, cable and wire insulation, resilient flooring, roofing membranes, stationary, automotive interiors and seat coverings, fashion and footwear, packaging.



PVC Emulsion

Poly Vinyl Chloride Emulsion

- Applications:
 - Widows Profiles
 - Electric Wires
 - Cable Industry
 - Injection Molding
 - Extrusion Of Flexible Hoses
- Packing: 25 KG Bags

Grade	K-Value	Density (g/cm³)
E6834	67-69	6≥

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





PVC Suspension

Poly Vinyl Chloride Suspension

- Applications:
 - Widows Profiles
 - Electric Wires
 - Cable Industry
 - Injection Molding
 - Extrusion Of Flexible Hoses
- Packing: 25 KG Bags

Grade	K- Value	Viscosity
S6532	64-66	101-109
S6558	64-66	101-109
S70	69-71	0.98-1.02
S60	59-61	0.74-0.79

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





PET

Polyethylene Terephthalate

It is the most common thermoplastic polymer resin of the polyester family and is used in fibers for clothing, containers for liquids and foods, and thermoforming for manufacturing, in combination with glass fiber for engineering resins, Non-oriented sheets to create packaging trays and blister, to make the right cosmetic jars, microwave containers, mesh fabrics in printing, filter oil, and agricultural applications, Automotive industry to make accessories like wiper arm, gear housing, engine cover, and the connector housing.

PET Bottles
PET Fibers



PET Bottle

Polyethylene Terephthalate Bottle

- Application:
 - Package Of All Kinds Of Carbonated Drinks
 - Food Packaging
 - Edible Oil
 - Carbonated Water
 - Pharmaceutical
- Packing: 25 KG Bags

Grade	MFI	Density
BG 780S	249±3	0.780±0.02
BG 780N	249±3	0.780±0.02
BG 820S	249±3	0.82±0.02
BG 820N	249±3	0.82±0.02

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





PET Fiber

Polyethylene Terephthalate Fiber

- Applications:
 - Polyester Fabrics In Textile Industry Such As Textile Fabrics, Curtains, Furniture
 - Pile Fabrics
 - Mattress Fabric
 - Car Tire
- Packing: 25 KG Bags

Grade	MFI	Density
TG640N	255±3	0.64±0.015
TG640S	255±3	0.64±0.01
TG640SB(N)	255±3	0.64±0.015
TG640SB(S)	255±3	0.64±0.01

The available grades are not limited to the selection above. For more grades, contact us or visit our website.



BR Butadiene Rubber

SBR
PBR

Butadiene Rubber (BR) is a polymer formed from the polymerization of the monomer 1,3-butadiene used in producing shoe soles, tires, and other parts for the car industry, adhesives and sealants, asphalt and polymer modification, and compounds for endless purposes.



SBR

Styrene Butadiene Rubber

- Applications:
 - Mechanical Goods
 - Tires
 - Molded And Extruded Mechanical Rubbers
 - Foot Wear
 - Tire Sidewalls
 - Floor Covering
 - Children Toys
 - Cables
 - Car & Truck Tires
 - Shoe Industry

- Packing: 25 KG Bags

Grade	Viscosity	Oil Content	Bounded Styrene
E-SBR 1502	46-58	<1	22.5-24.5
SBR 1712	42-52	<1	22.5-24.5
SBR 1500	46-58	<1.5	22.5-24.5

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





PBR

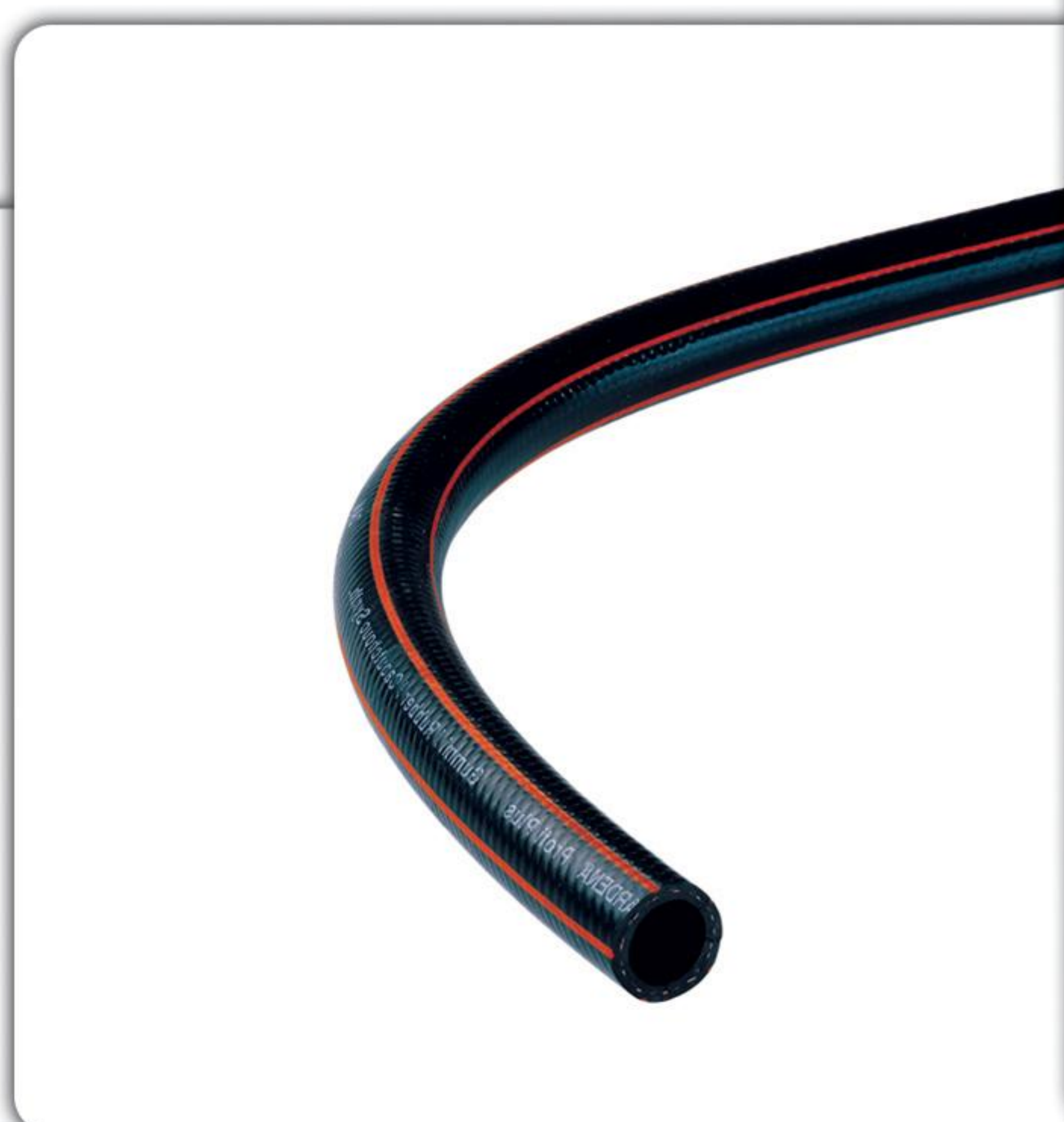
Poly Butadiene Rubber

- Applications:
 - Production of HIPS
 - Rubber Compound For Tires
 - Floor Coverings
 - Foot Wear
 - Children Toys
 - Rubber Hose
 - Belt And Gold Balls

- Packing: 25 KG Bags

Grade	Viscosity	Oil Content
PBR 1202	40-50	Max 0.3
PBR1220	41-49	Max 0.3

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





PC Polycarbonates

Polycarbonate is strong, tough material used for plastic lenses in eyewear, medical devices, automotive components, protective gear, greenhouses, Digital Disks (CDs, DVDs, and Blu-ray), and exterior lighting fixtures.



PC

Polycarbonates

- Applications:
 - Injection Modeling And Extrusion
 - Business Machines
 - Packaging
 - Sports
 - Appliances
 - Electrical
 - Lighting
 - Wire And Cable
 - Automotive
 - Sheets
- Packing: 25 KG Bags

Grade	Viscosity	Oil Content	Producer
PC 0104	1-4	1.2	Khozestan Petrochemical
PC 0407	4.1-7	1.2	Khozestan Petrochemical
PC 0710	7.1-10	1.2	Khozestan Petrochemical
PC 1012	10.1-12	1.2	Khozestan Petrochemical

The available grades are not limited to the selection above. For more grades, contact us or visit our website.





Masterbatches & Spunbonding

- **Compound**

Polymer compounding is the process of mixing or blending of polymers and additives and achieve a homogeneous blend, which is a crucial step in the polymer development process.

- **Masterbatch**

A masterbatch is comprised of plastic pellets that contain concentrated amounts of additives such as processing aids, colorants, antistats, light stabilizers, fillers, etc..



Compounds & Masterbatches

We are in position to produce and supply various types of masterbatches and polymer compounds at the highest quality level with virgin/ on-grade polymers in different grades as below and also complete the value chain of petrochemical products in downstream industries:

- Applications:
 - Polymer Compounds
 - Masterbatches
 - Additives
 - Extruded Polymers
 - Bioplastic Compounds
 - Plastic Granules
 - Solid Pigments



Contact



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