



AMIR KABIR PETROCHEMICAL CO.



AKPC

AMIR KABIR PETROCHEMICAL COMPANY



1 Product Description:

“LL0205AA” is a LLDPE copolymer with butene as comonomer which contains anti-oxidant.

This grade is especially suitable for use pure for handwrap stretch film or blended with LDPE for

Heavy duty sacks.

Film made from LL0205AA shows improved toughness compared to standard 1 MFR LLDPE butene

Copolymer.

Neutralizer:calcium stearate

Antioxidant:Irganox1010,Irganox168

2 Applications:

- Heavy duty sacks,mulch films.
- Stretch film,liners,geomembrane.

LLDPE

No.	Property	Value	Unit	Test Method
1	MFR (190°C/2.16kg)	0.5	g/10min	ISO 1133
2	Density	920	Kg/m ³	ISO 1183
3	Tensile strength at yield MD/TD	10/11	MPa	ISO 527
4	Tensile strength at break MD/TD	42/35	MPa	ISO 527
5	Elongation at break MD/TD	600/700	%	ISO 527
6	Tear strength MD/TD	155/375	g/25µm	ASTM D 1922
7	Dart drop impact	160	g	ASTM D 1709

Typical properties:
these are not to be construed as specifications.

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1 Product Description:

“LL 0209AA” is a LLDPE copolymer with butene as comonomer which contains antioxidant. It is recommended for general purpose applications. It is suitable for blending with conventional LDPE. Film made from pure LL 02090 AA has the following advantages over conventional LDPE:
 Better sealing, higher puncture resistance.
 Greater drawdown capability.
 Higher tensile strength.
 Neutralizer: Calcium Stearate.
 Antioxidant: Irganox1010, Irganox168

2 Applications:

- Food Grade
- Heave duty sacks, agricultural films, liners.
- Produce bags, stretch film



No.	Property	Result	Value	Unit	Test Method
1	MFR (190°C/2.16kg)		0.9	g/10min	ISO 1133
2	Density		920	Kg/m ³	ISO 1183
3	Tensile Strength at Yield MD/TD		10/11	MPa	ISO 527
4	Tensile Strength at Break MD/TD		41/32	MPa	ISO 527
5	Elongation at Break MD/TD		620/840	%	ISO 527
6	Tear Strength MD/TD		145/370	g/25μ	ASTM D1922
7	Dart Drop Impact		150	g	ASTM D1709

Typical properties:
 these are not to be construed as specifications.

1 Product Description:



“LL 0209KJ” is a LLDPE copolymer with butene as comonomer which contains antioxidant, Slip and antiblock additives. It gives film of high slip which is easily separable.

It is recommended for general purpose applications. It is suitable for blending with conventional LDPE. Film made from pure LL 0209 KJ has the following advantages over conventional LDPE:

- Easier sealing.
- Greater drawdown capability.
- Higher tensile strength.
- Higher puncture resistance.

2 Applications:

- Food Grade
- refuse sacks.
- produce bags, carrier bags.

LLDPE

High Slip/Antiblock Grade		
Additive	Silica	Talc
Neutralizer	Calcium Stearate	Calcium Stearate
Antioxidant	Irganox1010 , Irgafos168	Irganox1010 , Irgafos168
Antiblock	Siloblock47	Talc ABT 250
Slip	Erucamide	Erucamide

No.	Property	Value	Unit	Test Method
1	MFR (190°C/2.16kg)	0.9	g/10min	ISO 1133
2	Density	921	Kg/m ³	ISO 1183
3	Tensile Strength at Yield MD/TD	10/11	MPa	ISO 527
4	Tensile Strength at Break MD/TD	41/32	MPa	ISO 527
5	Elongation at Break MD/TD	620/840	%	ISO 527
6	Tear Strength MD/TD	145/370	g/25μ	ASTM D1922
7	Dart Drop Impact	150	g	ASTM D1709

Typical properties:
these are not to be construed as specifications.

1 Product Description:

“LL 0220 AA” is a LLDPE copolymer with butene as comonomer which contains antioxidant.

This grade is suitable for the production of blown film for light duty applications and for the production of cast stretch film.

Film made from LL 0220 AA can be produced at higher output compared to standard 1 MFR LLDPE butene copolymers.

Neutralizer: Zinc Oxide

Antioxidant: Irganox1010, Irganox168

2 Applications:

- Food Grade
- Light and medium duty film.
- Stretch film.



No.	Property	Value	Unit	Test Method
1	Melt Flow Rate (2.16kg)	2.2	g/10min	ISO 1133
2	Density	920	Kg/m ³	ISO 1183
3	Tensile Strength at Yield MD/TD	10/11	MPa	ISO 527
4	Tensile Strength at Break MD/TD	36/28	MPa	ISO 527
5	Elongation at Break MD/TD	600/800	%	ISO 527
6	Tear Strength MD/TD	110/300	g/25μ	ASTM D1922
7	Dart Drop Impact	130	g	ASTM D1709
8	Vicat Softening T°	93	°C	ISO 306

Typical properties:
these are not to be construed as specifications.

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LLDPE LLO220 KJ

Linear Low Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

“LL 0220 KJ” is a LLDPE copolymer with butene-1 as comonomer which contains antioxidant, slip and antilock additives. This grade is suitable for the production of blown film for light duty applications with a high slip requirement. Film made from LL 0220 KJ can be produced at higher output compared to standard 1 MFR LLDPE butene copolymers.

2 Applications:

- Light and medium duty film.

Medium Slip/Antiblock Grade

Additive	Silica	Talc
Neutralizer	Calcium Stearate	Calcium Stearate
Antioxidant	Irganox1010 , Irgafos168	Irganox1010 , Irgafos168
Antiblock	Siloblock47	Talc ABT 250
Slip	Erucamide	Erucamide

No.	Property	Value	Unit	Test Method
1	Melt Flow Rate (2.16kg)	2.4	g/10min	ISO 1133
2	Density	921	Kg/m ³	ISO 1183
3	Tensile Strength at Yield MD/TD	10/11	MPa	ISO 527
4	Tensile Strength at Break MD/TD	36/28	MPa	ISO 527
5	Elongation at Break MD/TD	600/800	%	ISO 527
6	Tear Strength MD/TD	110/300	g/25μ	ASTM D1922
7	Dart Drop Impact	130	g	ASTM D1709
8	Vicat Softening T°	93	°C	ISO 306

Typical properties:
these are not to be construed as specifications.

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LLDPE

1 Product Description:

“HD 5218 EA” is an easy flow high density polyethylene copolymer grade with a narrow molecular weight distribution, suitable for thin wall injection moulding applications.

HD5218EA has the following characteristics:

Good flow.

High warpage resistance.

Suitable for fast cycling applications.

Additive: Neutralizer; Calcium Stearate - Antioxidant: Irgafos168,DSTDP

2 Applications:

- Housewares.
- Thin walled food containers.
- PET bottle base cup.



No.	Property	Value	Unit	Test Method
1	Melt Flow Rate (2.16kg)	18	g/10min	ISO 1133
2	Density	952	Kg/m ³	ISO 1183
3	Tensile Strength at Yield	27	MPa	ISO 527
4	Elongation at Break	>1000	%	ISO 527
5	Flexural Modulus	1050	MPa	ISO 178 -1975
6	Charpy Impact Resistance	5	Kj/m ²	ISO 179
7	Vicat Softening T ^o	123	°C	ISO 306

Typical properties:
these are not to be construed as specifications.

AKPC

1 Product Description:

“HD 5226 EA” is an easy flow high density polyethylene copolymer grade with a narrow molecular weight distribution, suitable for thin wall injection moulding applications.

HD5226 EA has the following characteristics:

High flow.

High warpage resistance.

Suitable for very fast cycling applications.

Additive: Neutralizer; Calcium Stearate - Antioxidant: Irgafos168, DSTDP

2 Applications:

- Housewares.
- Thin walled food containers.
- PET bottle base cup.



LLDPE

No.	Property	Value	Unit	Test Method
1	Melt Flow Rate (2.16kg)	30	g/10min	ISO 1133
2	Density	953	Kg/m ³	ISO 1183
3	Tensile Strength at Yield	27	MPa	ISO 527
4	Elongation at Break	>1000	%	ISO 527
5	Flexural Modulus	1050	MPa	ISO 178 -1975
6	Charpy Impact Resistance	4	Kj/m ²	ISO 179
7	Vicat Softening T°	123	°C	ISO 306

Typical properties:
these are not to be construed as specifications.

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1 Product Description:

“HD6070 EA” is a high density polyethylene grade with a narrow molecular weight distribution, suitable for a wide range of injection moulding applications.

HD 6070 EA has the following characteristic:

Easy processing.

High rigidity.

Good impact strength.

High warpage resistance.

Additive:

Neutralizer; Calcium Stearate - Antioxidant: DSTDP



2 Applications:

- Crates.
- Boxes.
- Seats.
- Pallets.



No.	Property	Value	Unit	Test Method
1	Melt Flow Rate (2.16kg)	8.4	g/10min	ISO 1133
2	Density	960	Kg/m ³	ISO 1183
3	Tensile Strength at Yield	31	MPa	ISO 527
4	Elongation at Break	>1000	%	ISO 527
5	Flexural Modulus	1400	MPa	ISO 178-1975
6	ESCR F50 ,23 ^o C	55	hours	ASTM D 1693
7	Charpy Impact Resistance	6	Kj/m ²	ISO 179

Typical properties:
these are not to be construed as specifications.

AKPC

1 Product Description:

“HD 6070 UA” is a UV stabilized high density polyethylene grade with a narrow molecular weight distribution, suitable for a wide range of injection moulding applications.

HD 6070 UA has the following characteristics:

Easy processing.

High rigidity.

Good impact strength.

High warpage resistance.

Additive: Neutralizer; Calcium Stearate - Antioxidant: Irgafos168 - Anti UV:

Chimasorb 944

2 Applications:

- Crates.
- Boxes.
- Seats.
- Pallets.



LLDPE

No.	Property	Value	Unit	Test Method
1	Melt Flow Rate (2.16kg)	8.4	g/10min	ISO 1133
2	Density	960	Kg/m ³	ISO 1183
3	Tensile Strength at Yield	31	MPa	ISO 527
4	Elongation at Break	>1000	%	ISO 527
5	Flexural Modulus	1400	MPa	ISO 178-1975
6	ESCR F50 ,23 ^o C	55	hours	ASTM D 1693
7	Charpy Impact Resistance	6	Kj/m ²	ISO 179

Typical properties:
these are not to be construed as specifications.

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HDPE EX1 (GF 7740F2)

High Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

“EX1 (GF 7740F2)” is high density polyethylene with Butene-1 as comonomer. It is a medium molecular mass with a narrow molar mass distribution. Stabilization: Ca-Stearate, Irganox1010, Irgafos168

2 Applications:

- Stretched film tape used in manufacture of knitted and woven fabrics (Agricultural Packaging and Protective cover).



No.	Property	Units	Test Method	Value
1 ▶	MFI(190 °C/5Kg)	g/10min	ISO 1133	1.6±0.4
2 ▶	MFI(190 °C/21.6Kg)	g/10min	ISO 1133	22±4
3 ▶	FRR21.6/5	----	----	14±2
4 ▶	Density	g/cm ³	ISO 1183	0.944±0.002
5 ▶	Gel Number	----	Internal Method	≤ 4
6 ▶	Gel Size	µm	Internal Method	≤ 150

Typical properties:
these are not to be construed as specifications.

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HDPE

1 Product Description:

“EX2 (GF 7750)” is high density polyethylene with propylene as comonomer. It is a medium molar mass with a narrow molar mass distribution. Stabilization: Ca-Stearate, Irganox1010, Irgafos168



2 Applications:

- Production of monofilaments with high tensile strength.

HDPE

No.	Property	Units	Test Method	Value
1	MFI(190 °C/5Kg)	g/10min	ISO 1133	2.5±0.4
2	MFI(190 °C/21.6Kg)	g/10min	ISO 1133	27±3
3	FRR21.6/5	----	----	10.5±1
4	Density	g/cm ³	ISO 1183	0.9560 ± 0.002
5	Notched Impact Strength	mJ/mm ²	ISO179/1eA	5
6	Gel Number	----	Internal Method	≤ 5
7	Gel Size	µm	Internal Method	≤150

Typical properties:
these are not to be construed as specifications.

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HDPE EX3 (GM 5010 T2N)

High Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

“EX3 (GM 5010 T2N)” is a natural colored high density polyethylene with Butene-1 as comonomer. The product is classified as PE100 and shows good stress crack resistance properties (ESCR) combined with good impact strength. Stabilization: Ca-Stearate, Zn-Stearate, Irganox1010, Irgafos168

2 Applications:

- Pipe Extrusion PE100 Class
- Pressure pipe.
 - Drinking water and gas pipes.
 - Discharge pipes.
 - Sewer pipes and their fittings.
 - For injection moulded and other fit tings.
 - Sheets



No.	Property	Unit	Test Method	Value
1	MFR(190 °C/5Kg)	g/10min	ISO 1133	0.45 ± 0.05
2	MFR(190 °C/21.6Kg)	g/10min	ISO 1133	12.0 ± 3.0
3	FRR21.6/5	----	----	28±4
4	Density	g/cm ³	ISO 1183	0.945 ± 0.002
5	Notched Impact Strength	mj/mm ²	ISO179/1eA	> 12
6	Pipe Evaluation Hydrostatic Strength (80oc,4N/mm2)	Hours	(DIN 8074 & DIN 8075 & ISO 1167)	1000 min.

Typical properties:
these are not to be construed as specifications.

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HDPE

1 Product Description:

“EX4 (GM 9455F)” is high density polyethylene with Butene-1 as comonomer. It is high molar mass for blown film with very high stiffness and good tenacity. Stabilization: Ca-Stearate, Zn-Stearate, Irgafos168

2 Applications:

- Paper like film suitable for wrapping.
- Counter bags and carrier bags.



No.	Property	Units	Test Method	Value
1	MFI(190 °C/5Kg)	g/10min	ISO 1133	0.28 ± 0.07
2	MFI(190 °C/21.6Kg)	g/10min	ISO 1133	8 ± 2
3	FRR21.6/5	----	----	29
4	Density	g/cm ³	ISO 1183	0.956 ± 0.002
5	Gel Number	----	Internal Method	3
6	Gel Size	%	Internal Method	≤ 120

Typical properties:
these are not to be construed as specifications.

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HDPE EX5 (GM 9450 F)

High Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

“EX5 (GM 9450 F)” is a high Density polyethylene with Butene-1 as comonomer. It is a high molar mass for blown film with in comparison to EX4 lower stiffness and increased tenacity .The product has good toughness,low gel level and good tear strength.

Stabilization: Ca-Stearate, Zn-Stearate, Irgafos168

2 Applications:

- Food Grade.
- Blown films with paper like quality.
- Suitable for counter bags.
- Carrier bags.
- Wrapping films and sheets.
- Blending partner.

No.	Property	Units	Test Method	value
1 ▶	MFR(190 °C/5Kg)	g/10min	ISO 1133	0.28±0.07
2 ▶	MFR(190 °C/21.6Kg)	g/10min	ISO 1133	8.0±2.0
3 ▶	FRR5/21.6	---	---	30±4
4 ▶	Density	g/cm ³	ISO 1183	0.949 ± 0.002

Typical properties:
these are not to be construed as specifications.

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HDPE

1 Product Description:

"I1 (GA 7260)" is a high density polyethylene with Propylene as comonomer. It is very easy flowing, high density, hardness and stiffness, largely warpage free, for mass product articles in rapid shot frequency.

Stabilization: Ca-Stearate, MgO, Irganox1010, UM V13



2 Applications:

- Lightweight household.
- Disposable articles.
- Large moulding and complicated parts where high impact strength and stress cracking resistance (ESCR) are not demanded.



HDPE

No.	Property	Units	Test Method	Value
1	MFI(190 °C/2.16Kg)	g/10min	ISO 1133	17±3
2	MFI(190 °C/5Kg)	g/10min	ISO 1133	52±8
3	FRR5/2.16	----	----	3±0.8
4	Density	g/cm ³	ISO 1183	0.957± 0.002
5	Notched Impact Strength	mJ/mm ²	ISO179/1eA	2

Typical properties:
these are not to be construed as specifications.

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HDPE I2 (GB 7250)

High Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

"I2 (GB 7250)" is a high density polyethylene with Propylene as comonomer. It is easy flowing, low warpage, less hard and stiff than I1. Stabilization: Ca-Stearate, Irganox1010

2 Applications:

- Household articles.
- Closures/seals.
- Packaging



No.	Property	Units	Test Method	Value
1	MFI(190 °C/2.16Kg)	g/10min	ISO 1133	10±1.4
2	MFI(190 °C/5Kg)	g/10min	ISO 1133	28±4
3	FRR5/2.16	----	----	2.8±0.7
4	Density	g/cm ³	ISO 1183	0.950±0.002
5	Notched Impact Strength	mJ/mm ²	ISO179/ 1eA	3

Typical properties:
these are not to be construed as specifications.

AKPC

HDPE

1 Product Description:

“I3 (GC 7260)” is a high Density polyethylene with Propylene as comonomer. The product has good impact strength, good stress cracking resistance (ESCR), low warping and good flow ability as well as high density, hardness and stiffness

Stabilization: Ca-Stearate, Irganox1010

2 Applications:

- Transport and stacking crates.
- Particularly bottle crates.
- Engineering parts.
- Closures.



HDPE

No.	Property	Unit	Test Method	Value
1	MFR(190 °C/2.16Kg)	g/10min	ISO 1133	8.0±1.0
2	MFR(190 °C/5Kg)	g/10min	ISO 1133	23±3
3	FRR5/2.16	----	----	2.8±0.6
4	Density	g/cm ³	ISO 1183	0.957±0.002
5	Notched Impact Strength	mJ/mm ²	ISO179/1eA	3.0

Typical properties:
these are not to be construed as specifications.

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HDPE I4 (GD 7255)

High Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

"I4 (GD 7255)" is a high density polyethylene with Propylene as comonomer. It has high impact strength and low warping tendency. Stabilization: Ca-Stearate, Irganox1010, Irgafos168

2 Applications:

- For thick walled, Highly stressed transport containers e.g. refuse bins and Fish crates.



No.	Property	Units	Test Method	Value
1	MFI(190 °C/2.16Kg)	g/10min	ISO 1133	4.0±0.7
2	MFI(190 °C/5Kg)	g/10min	ISO 1133	11±2
3	FRR5/2.16	----	----	2.8±0.9
4	Density	g/cm ³	ISO 1183	0.954±0.002
5	Notched Impact Strength	mJ/mm ²	ISO179/1eA	4

Typical properties:
these are not to be construed as specifications.

AKPC

HDPE

1 Product Description:

“BL2 (GF 4750)” is a high density polyethylene with Butene-1 as comonomer. It is high impact strength and slightly lower stiffness than BL3, high stress cracking resistance(ESCR) even in contact with surfactants.

Stabilization: Ca-Stearate, Irganox1010,Irgafos168

2 Applications:

- Disinfectant bottles up to 2 liters.
- Containers up to 10 liters.
- Petrol cans up to 5 liters.



HDPE

No.	Property	Units	Test Method	Value
1	MFI(190 °C/5Kg)	g/10min	ISO 1133	1.2 ± 0.3
2	MFI(190 °C/21.6Kg)	g/10min	ISO 1133	23 ± 4
3	FRR21.6/5	----	----	19
4	Density	g/cm ³	ISO 1183	0.946 ± 0.002
5	Notched Impact Strength	mJ/mm ²	ISO179/1eA	10
6	Swell Ratio	%	Internal Method	110 ± 15

Typical properties:
these are not to be construed as specifications.

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HDPE BL3 (GF 4760)

High Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

“BL3 (GF 4760)” is a high density polyethylene with Butene-1 as comonomer. The product is high density and high stiffness, good flow ability and impact strength and good stress cracking resistance (ESCR).

Stabilization: Ca-Stearate, Irganox1010, Irgafos168

2 Applications:

- Containers with capacities ranging from a few ml up to 10 liters.
- Production of sheets for thermoforming.



No.	Property	Units	Test Method	Value
1 ▶	MFI(190 °C/5Kg)	g/10min	ISO 1133	1.2±0.3
2 ▶	MFI(190 °C/21.6Kg)	g/10min	ISO 1133	23±4
3 ▶	FRR21.6/5	----	----	19
4 ▶	Density	g/cm ³	ISO 1183	0.954 ± 0.002
5 ▶	Notched Impact Strength	mj/mm ²	ISO179/1eA	9
6 ▶	Swell Ratio	%	Internal Method	110 ± 15

Typical properties:
these are not to be construed as specifications.

AKPC

HDPE

AMIR KABIR PETROCHEMICAL COMPANY

HDPE BL4 (GM 8255)

High Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

“BL4 (GM 8255)” is a high density polyethylene with Butene-1 as comonomer. It is a high molar mass, easily process able, High stiffness and impact good stress cracking resistance (ESCR) and even good moulding surface finish.
Stabilization: Ca-Stearate, Irganox1010, Irgafos168

2 Applications:

- General purpose grade for containers from 1 liter to about 500 liters capacity.



HDPE

No.	Property	Units	Test Method	Value
1	MFI(190 °C/5Kg)	g/10min	ISO 1133	0.35± 0.06
2	MFI(190 °C/21.6Kg)	g/10min	ISO 1133	8.5± 2.0
3	FRR21.6/5	----	----	24
4	Density	g/cm ³	ISO 1183	0.952±0.002
5	Notched Impact Strength	mJ/mm ²	ISO179/1eA	25
6	Swell Ratio	%	Internal Method	140± 20

Typical properties:
these are not to be construed as specifications.

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HDPE BL5 (GM 7746)

High Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

“BL5 (GM 7746)” is a high density polyethylene with Butene-1 as comonomer. It has a high molar mass, very good impact strength and optimum stress cracking resistance (ESCR).

Stabilization: Ca-Stearate, Irganox1010, Irgafos168

2 Applications:

- Large container above 5 liters capacity e.g. petrol tanks.
- For manufacture of semi-finished products.



No.	Property	Units	Test Method	Value
1	MFI(190 °C/5Kg)	g/10min	ISO 1133	0.2±0.04
2	MFI(190 °C/21.6Kg)	g/10min	ISO 1133	4.0±0.4
3	FRR21.6/5	----	----	20
4	Density	g/cm ³	ISO 1183	0.943±0.002
5	Notched Impact Strength	mJ/mm ²	ISO179/1eA	25
6	Swell Ratio	%	Internal Method	150±20

Typical properties:
these are not to be construed as specifications.

AKPC

HDPE

AMIR KABIR PETROCHEMICAL COMPANY
HDPE BL6 (GM 7255)
 High Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

“BL6 (GM 7255)” is a high density polyethylene with Butene-1 as comonomer. It is a high molar mass material with very good impact strength and stiffness and good stress cracking resistance (ESCR) and even good moulding surface finish. Stabilization: Ca-Stearate, Irganox1010, Irgafos168, HOE Wax PED191



2 Applications:

- For large containers above 5 liters capacity for manufacture of semi-finished product.

HDPE

No.	Property	Units	Test Method	Value
1 ▶	MFI(190 °C/5Kg)	g/10min	ISO 1133	0.12 ± 0.02
2 ▶	MFI(190 °C/21.6Kg)	g/10min	ISO 1133	2.7 ± 0.4
3 ▶	FRR21.6/5	----	----	23
4 ▶	Density	g/cm ³	ISO 1183	0.952± 0.002
5 ▶	Notched Impact Strength	mJ/mm ²	ISO179/1eA	42
6 ▶	Swell Ratio	%	Internal Method	145 ± 20

Typical properties:
 these are not to be construed as specifications.

AKPC

1 Product Description:

“BL7 (GM 6255)” is a high density polyethylene with Butene-1 as comonomer. It is a special grade for particularly high requirements like low temperature impact strength and stacking, good stress cracking resistance (ESCR).

Stabilization: Ca-Stearate, Irganox1010, Irgafos168, HOE Wax PED191

2 Applications:

- For large containers e.g. ring drums with 220 liters capacity.



No.	Property	Units	Test Method	Value
1 ▶	MFI(190 °C/5Kg)	g/10min	ISO 1133	≤ 0.1
2 ▶	MFI(190 °C/21.6Kg)	g/10min	ISO 1133	2.2 ± 0.2
3 ▶	Density	g/cm ³	ISO 1183	0.950 ± 0.002
4 ▶	Notched Impact Strength	mJ/mm ²	ISO179/1eA	≥ 45
5 ▶	Swell Ratio	%	Internal Method	145 ± 20

Typical properties:
these are not to be construed as specifications.

AKPC

AMIR KABIR PETROCHEMICAL COMPANY

HDPE BL8 (GM 7745)

High Density Polyethylene

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

“BL8 (GM 7745)” is a high density polyethylene with Butene-1 as comonomer. It is a special grade.
Stabilization: Ca-Stearate, Irganox1010, Irgafos168, Tinevin326, Tinevin622

2 Applications:

- For heating oil storage tanks.
- Large containers for various chemicals.



HDPE

No.	Property	Units	Test Method	Value
1	MFI(190 °C/5Kg)	g/10min	ISO 1133	0.31±0.04
2	MFI(190 °C/21.6Kg)	g/10min	ISO 1133	7.5± 1.5
3	FRR21.6/5	----	----	24
4	Density	g/cm ³	ISO 1183	0.944±0.002
5	Notched Impact Strength	mJ/mm ²	ISO179/1eA	19
6	Swell Ratio	%	Internal Method	135± 20

Typical properties:
these are not to be construed as specifications.

AKPC

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 1800 S

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Typical application include caps & closures, engineering parts and lesiure & sports equipment.

2 Applications:

- Caps & Closures
- Sports
- Leisure and Toys

3 Processing Method:

- Injection Moulding

4 Features:

Fast Cycle(Production), Low Density, Good Flexibility, Good Processability



No.	Property	Value	Units	Test Method
1	Density	0.917	g/cm ³	ISO 1183
2	Melt flow rate (MFR)(190°C/2.16Kg)	20.0	g/10 min	ISO1133
3	Tensile Modulus	150	MPa	ISO 527-1, -2
4	Tensile Stress at Yield	8.0	MPa	ISO 527-1, -2
5	Vicat softening temp (A50 (50 °C/h 10N))	80	°C	ISO 306

Typical properties:
not to be construed as specifications

AKPC

LDPE

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 2420 D

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Lupolen 2420 D is a non-additivated, low density Polyethylene. It is delivered in pellet form.

2 Applications:

- Bags & Pouches
- Bottles for Consumer Goods
- Shrink Film
- Blown Film
- Film

3 Processing Method:

- Blown Film
- Injection Moulding
- Extrusion Blow Moulding

4 Features:

Good Processability, Good Tear strength, Good Toughness

LDPE

No.	Property	Value	Units	Test Method
1	Density	0.923	g/cm ³	ISO 1183
2	Melt flow rate (MFR)(190°C/2.16Kg)	0.25	g/10 min	ISO 1133
3	Tensile Modulus	240	MPa	ISO 527-1, -2
4	Tensile Stress at Yield	10	MPa	ISO 527-1, -2
5	Tensile Strength at Break MD/TD	27/20	MPa	ISO 527-1, -3
6	Tensile Strain at Break MD/TD	200/500	%	ISO 527-1, -3
7	Dart Drop Impact(50 blown film)	250	g	ASTM D 1709
8	Vicat softening temp(A50 (50 °C/h 10N))	94	°C	ISO 306
9	Haze (50)	<14	%	ASTM D 1003
10	Gloss (60 °,50)	>50		ASTM D 2457

Typical properties:
not to be construed as specifications

AKPC

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 2420 F

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Lupolen 2420 F is a non-additivated, low density Polyethylene. It is delivered in pellet form.

2 Applications:

- Bags & Pouches
- Blow Moulding Application
- Shrink Film
- Blown Film
- Film

3 Processing Method:

- Blown Film
- Injection Moulding
- Extrusion Blow Moulding

4 Features:

Good Heat Seal, Optical, Good Processability, Good Melt Strength

No.	Property	Value	Units	Test Method
1	Density	0.923	g/cm ³	ISO 1183
2	Melt flow rate (MFR)(190°C/2.16Kg)	0.75	g/10 min	ISO 1133
3	Tensile Modulus	260	MPa	ISO 527-1, -2
4	Tensile Stress at Yield	11	MPa	ISO 527-1, -2
5	Tensile Strength MD/TD	26/20	MPa	ISO 527-1, -3
6	Tensile Strain at Break MD/TD	300/600	%	ISO 527-1, -3
7	Dart Drop Impact(50 blown film)	150	g	ASTM D 1709
8	Vicat softening temp(A50 (50 °C/h 10N))	96	°C	ISO 306
9	Haze (50)	<8.0	%	ASTM D 1003
10	Gloss (60°, 50)	>90		ASTM D 2457

Typical properties:
not to be construed as specifications

AKPC

LDPE

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 2420 H

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Lupolen 2420 H is a non-additivated, low density Polyethylene. It is delivered in pellet form.

2 Applications:

- Bags & Pouches
- Film
- Shrink Film
- Blown Film
- Cast Film

3 Processing Method:

- Cast Film
- Blown Film

4 Features:

Good Heat Seal, Optical, Good Processability

LDPE

No.	Property	Value	Units	Test Method
1 ▶	Density	0.924	g/cm ³	ISO 1183
2 ▶	Melt flow rate (MFR)(190°C/2.16Kg)	1.9	g/10 min	ISO 1133
3 ▶	Tensile Modulus	260	MPa	ISO 527-1, -2
4 ▶	Tensile Stress at Yield	11	MPa	ISO 527-1, -2
5 ▶	Tensile Strength at Break MD/TD	26/18	MPa	ISO 527-1, -3
6 ▶	Tensile Strain at Break MD/TD	250/600	%	ISO 527-1, -3
7 ▶	Dart Drop Impact(50 blown film)	110	g	ASTM D 1709
8 ▶	Vicat softening temp(A50 (50 °C/h 10N))	94	°C	ISO 306
9 ▶	Haze (50)	<8.0	%	ASTM D 1003
10 ▶	Gloss (60 °,50)	>100		ASTM D 2457

Typical properties:
not to be construed as specifications

AKPC

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 2426 F

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Lupolen 2426 F is an additivated, low density Polyethylene. It contains slip and anti-blocking agent. It is delivered in pellet form.

2 Applications:

- Cast & Blown Film
- Bags & Pouches
- Film & Shrink Film
- Food Packaging Film
- Surface Protection Film

3 Processing Method:

- Blown Film

4 Features:

Unspecified Antiblocking, Opticals, Good Processability, Unspecified Slip, Low Friction

No.	Property	Value	Units	Test Method
1 ▶	Density	0.924	g/cm ³	ISO 1183
2 ▶	Melt flow rate (MFR)(190°C/2.16Kg)	0.75	g/10 min	ISO 1133
3 ▶	Tensile Modulus	260	MPa	ISO 527-1, -2
4 ▶	Tensile Stress at Yield	11	MPa	ISO 527-1, -2
5 ▶	Tensile Strength MD/TD	26/20	MPa	ISO 527-1, -3
6 ▶	Tensile Strain at Break MD/TD	300/600	%	ISO 527-1, -3
7 ▶	Dart Drop Impact(50 blown film)	150	g	ASTM D 1709
8 ▶	Vicat softening temp(A50 (50 °C/h 10N))	96	°C	ISO 306
9 ▶	Haze (50)	<9.0	%	ASTM D 1003
10 ▶	Gloss (60 °, 50)	>90		ASTM D 2457

Typical properties:
not to be construed as specifications

AKPC

LDPE

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 2426 H

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Lupolen 2426 H is an additivated, low density Polyethylene. It contains slip and anti-blocking agent. It is delivered in pellet form.

2 Applications:

- Cast Film
- Bags & Pouches
- Film & Shrink Film
- Blown Film
- Surface Protection Film

3 Processing Method:

- Cast Film
- Blown Film

4 Features:

Unspecified Antiblocking, Opticals, Good Processability, Unspecified Slip, Low Friction

LDPE

No.	Property	Value	Units	Test Method
1 ▶	Density	0.924	g/cm ³	ISO 1183
2 ▶	Melt flow rate (MFR)(190°C/2.16Kg)	1.9	g/10 min	ISO 1133
3 ▶	Tensile Modulus	260	MPa	ISO 527-1, -2
4 ▶	Tensile Stress at Yield	11	MPa	ISO 527-1, -2
5 ▶	Tensile Strength MD/TD	26/18	MPa	ISO 527-1, -3
6 ▶	Tensile Strain at Break MD/TD	250/600	%	ISO 527-1, -3
7 ▶	Dart Drop Impact(50 blown film)	110	g	ASTM D 1709
8 ▶	Vicat softening temp(A50 (50 °C/h 10N))	94	°C	ISO 306
9 ▶	Haze (50)	<9.0	%	ASTM D 1003
10 ▶	Gloss (60 °, 50)	>100		ASTM D 2457

Typical properties:
not to be construed as specifications

AKPC

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 2426 K

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Lupolen 2426 K is an additivated, low density Polyethylene. It contains slip and anti-blocking agent. It is delivered in pellet form.

2 Applications:

- Cast Film
- Food Packaging Film
- Film & Shrink Film
- Blown Film
- Surface Protection Film

3 Features:

3) Features: Unspecified Antiblocking, Opticals, Good Processability, Unspecified Slip, Low Friction

No.	Property	Value	Units	Test Method
1 ▶	Density	0.924	g/cm ³	ISO 1183
2 ▶	Melt flow rate (MFR)(190°C/2.16Kg)	4	g/10 min	ISO 1133
3 ▶	Tensile Modulus	260	MPa	ISO 527-1, -2
4 ▶	Tensile Stress at Yield	11	MPa	ISO 527-1, -2
5 ▶	Tensile Strength MD/TD	22/15	MPa	ISO 527-1, -3
6 ▶	Tensile Strain at Break MD/TD	300/600	%	ISO 527-1, -3
7 ▶	Dart Drop Impact(50 blown film)	100	g	ASTM D 1709
8 ▶	Vicat softening temp(A50 (50 °C/h 10N))	92	°C	ISO 306
9 ▶	Haze (50)	<9.0	%	ASTM D 1003
10 ▶	Gloss (60 °, 50)	>105		ASTM D 2457

Typical properties:
not to be construed as specifications

AKPC

LDPE

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 3020 F

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Lupolen 3020 F is a non-additivated, low density polyethylene with high rigidity, good opticals and good chemical resistance. It is delivered in pellet form.

2 Applications:

- Bags & Pouches
- Cast & Blown Film
- Film & Shrink Film
- Food Packaging Film
- Surfacen Protection Film

3 Processing Method:

- Blown Film

4 Features:

Opticals, Good Processability, Good Stiffness

LDPE

No.	Property	Value	Unit	Test Method
1 ▶	Density	0.927	g/cm ³	ISO 1183
2 ▶	Melt flow rate (MFR)(190°C/2.16Kg)	0.9	g/10 min	ISO 1133
3 ▶	Tensile Modulus	300	MPa	ISO 527-1, -2
4 ▶	Tensile Stress at Yield	13.0	MPa	ISO 527-1, -2
5 ▶	Tensile Strength MD/TD	27/19	MPa	ISO 527-1, -3
6 ▶	Tensile Strain Break MD/TD	300/600	%	ISO 527-1, -3
7 ▶	Dart Drop Impact (50 blown film)	120	g	ASTM D 1709
8 ▶	Vicat softening temp (A50 (50 °C/h 10N))	100	°C	ISO 306
9 ▶	Haze (50)	<6.5	%	ASTM D 1003
10 ▶	Gloss (60 ° ,50)	>100		ASTM D 2457

Typical properties:
not to be construed as specifications

AKPC

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 3020 H

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Lupolen 3020 H is a non-additivated, low density Polyethylene with high rigidity, good opticals and good chemical resistance. It is delivered in pellet form.

2 Applications:

- Cast & Blown Film
- Bags & Pouches
- Film & Shrink Film
- Food Packaging Film
- Surface Protection Film

3 Processing Method:

- Cast Film
- Blown Film

4 Features:

Good Heat Seal, Optical, Good Processability, Good Stiffness

No.	Property	Value	Units	Test Method
1	Density	0.927	g/cm ³	ISO 1183
2	Melt flow rate (MFR)(190°C/2.16Kg)	2.0	g/10 min	ISO 1133
3	Tensile Modulus	300	MPa	ISO 527-1, -2
4	Tensile Stress at Yield	13	MPa	ISO 527-1, -2
5	Tensile Strength MD/TD	25/18	MPa	ISO 527-1, -3
6	Tensile Strain at Break MD/TD	350/600	%	ISO 527-1, -3
7	Dart Drop Impact(50 blown film)	110	g	ASTM D 1709
8	Vicat softening temp(A50 (50 °C/h 10N))	100	°C	ISO 306
9	Haze (50)	<6.5	%	ASTM D 1003
10	Gloss (60°, 50)	>110		ASTM D 2457

Typical properties:
not to be construed as specifications

AKPC

LDPE

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 3020 K

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Lupolen 3020 K is a non-additivated, low density Polyethylene with high rigidity, good opticals & good chemical resistance. It is delivered in pellet form

2 Applications:

- Cast & Blown Film
- Lamination Film
- Film & Shrink Film
- Food Packaging Film
- Surface Protection Film

3 Processing Method:

- Cast Film
- Blown Film
- Injection Moulding

4 Features:

Good Heat Seal, Optical, Good Processability, Good Stiffness

LDPE

No.	Property	Value	Units	Test Method
1	Density	0.927	g/cm ³	ISO 1183
2	Melt flow rate (MFR)(190°C/2.16Kg)	4.0	g/10 min	ISO 1133
3	Tensile Modulus	300	MPa	ISO 527-1, -2
4	Tensile Stress at Yield	13.0	MPa	ISO 527-1, -2
5	Tensile Strength MD/TD	20/15	MPa	ISO 527-1, -3
6	Tensile Strain at Break MD/TD	350/600	%	ISO 527-1, -3
7	Dart Drop Impact(50 blown film)	100	g	ASTM D 1709
8	Vicat softening temp(A50 (50 °C/h 10N))	97	°C	ISO 306
9	Haze (50)	<6.5	%	ASTM D 1003
10	Gloss (60°, 50)	>115		ASTM D 2457

Typical properties:
not to be construed as specifications

AKPC

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 3026 H

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Lupolen 3026 H is an additivated, low density Polyethylene with high rigidity. It contains slip & anti-blocking agent. It is delivered in pellet form.

2 Applications:

- Cast & Blown Film
- Bags & Pouches
- Film & Shrink Film
- Food Packaging Film
- Surface Protection Film

3 Processing Method:

- Cast Film
- Blown Film

4 Features:

Opticals, Good Processability, Unspecified Slip, Low Friction, Good Stiffness

No.	Property	Value	Units	Test Method
1 ▶	Density	0.927	g/cm ³	ISO 1183
2 ▶	Melt flow rate (MFR)(190°C/2.16Kg)	2.0	g/10 min	ISO 1133
3 ▶	Tensile Modulus	300	MPa	ISO 527-1, -2
4 ▶	Tensile Stress at Yield	13.0	MPa	ISO 527-1, -2
5 ▶	Tensile Strength MD/TD	25/18	MPa	ISO 527-1, -3
6 ▶	Tensile Strain at Break MD/TD	350/600	%	ISO 527-1, -3
7 ▶	Dart Drop Impact(50 blown film)	110	g	ASTM D 1709
8 ▶	Vicat softening temp(A50 (50 °C/h 10N))	100	°C	ISO 306
9 ▶	Haze (50)	<7.0	%	ASTM D 1003
10 ▶	Gloss (60 °, 50)	>110		ASTM D 2457

Typical properties:
not to be construed as specifications

AKPC

LDPE

AMIR KABIR PETROCHEMICAL COMPANY

LDPE Lupolen 3026 K

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

1 Product Description:

Lupolen 3026 K is an additivated, low density Polyethylene with high rigidity. It contains slip & anti blocking agent. It is delivered in pellet form.

2 Applications:

- Cast & Blown Film
- Lamination Film
- Film & Shrink Film
- Food Packaging Film
- Surfacen Protection Film

3 Processing Method:

- Cast Film
- Blown Film
- Injection Moulding

4 Features:

Unspecified Antiblocking, Opticals, Good Processability, Unspecified Slip, Low Friction, Good Stiffness

LDPE

No.	Property	Value	Unit	Test Method
1 ▶	Density	0.927	g/cm ³	ISO 1183
2 ▶	Melt flow rate (MFR)(190°C/2.16Kg)	4.0	g/10 min	ISO 1133
3 ▶	Tensile Modulus	300	MPa	ISO 527-1, -2
4 ▶	Tensile Stress at Yield	13.0	MPa	ISO 527-1, -2
5 ▶	Tensile Strength MD/TD	20/15	MPa	ISO 527-1, -3
6 ▶	Tensile Strain Break MD/TD	350/600	%	ISO 527-1, -3
7 ▶	Dart Drop Impact (50 blown film)	100	g	ASTM D 1709
8 ▶	Vicat softening temp (A50 (50 °C/h 10N))	97	°C	ISO 306
9 ▶	Haze (50)	<6.0	%	ASTM D 1003
10 ▶	Gloss (60 °, 50)	>105		ASTM D 2457

Typical properties:
not to be construed as specifications

AKPC

AMIR KABIR PETROCHEMICAL COMPANY

(1, 3 -Butadiene Analysis)

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y



BD

COMPONENT	SPEC	UNIT	METHOD
PURITY	99.5	% WT MIN	ASTM D2593
TOTAL ACETYLENE (V AC,E AC, M AC)	40	PPM WT MAX	ASTM D2593
VINYL ACETYLEN	14	PPM WT MAX	ASTM D2593
CARBONYL	20	PPM WT MAX	ASTM D4423
BUTADIENE DIMER	0.1	% WT MAX	ASTM D2426
PEROXIDE	5	PPM WT MAX	ASTM D5799
NON VOLATILE	0.1	% WT MAX	ASTM D1025
INHIBITOR TBC	40-150	PPM WT	ASTM D1157
TOTAL SULFUR	5	PPM WT MAX	ASTM D5453*
OXYGEN	0.2	% MOL MAX	TELEDYNE ANALYTICAL**
WATER	300	PPM WT MAX	DEW POINT METER***

Remark:

- * Covert ASTM D3246
- ** Covert ASTM D2505
- *** Covert ASTM D1744

Typical properties:
these are not to be construed as specifications.

AKPC

AMIR KABIR PETROCHEMICAL COMPANY

CFO PRODUCT

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y



OLEFIN



PROPERTY	UNIT	METHOD (ASTM)	Value
Sulfur	Wt%	D - 5453	< 3.7
Flash Point	°C	D - 93	≤ 100
Pour Point	°C	D - 97	To be reported
Viscosity at 100°C	Cst	D - 88	To be reported
Specific Gravity	----	D - 1250	0.98 – 1.06

Typical properties:
these are not to be construed as specifications.

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AMIR KABIR PETROCHEMICAL COMPANY

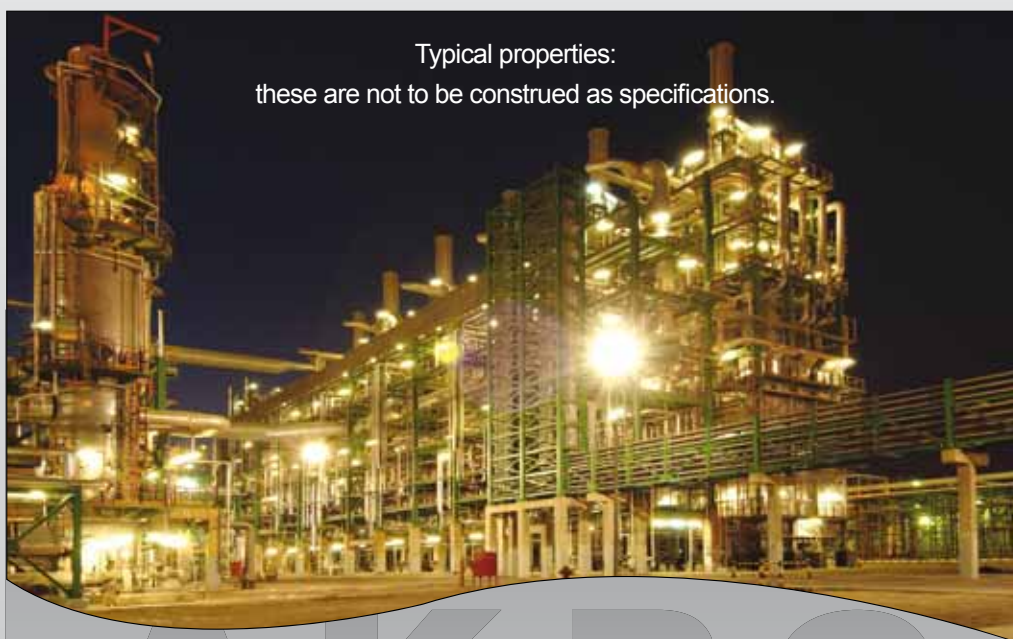
PG PRODUCT

AROMATIC PLAUTS FEED

A M I R K A B I R P E T R O C H E M I C A L C O M P A N Y

PROPERTY	UNIT	METHOD (ASTM)	EXPECTED
DENSITY AT 15.6 °C(60 °F)	gr/cm3	D-4052	0.9 MAX
R.V.P	Psi	D-323	5 MAX
TOTAL SULFUR	ppm	D-5453	200 MAX
IBP	°C	D-86	40 MIN
5 PCT VOL RECOVERED	°C	D-86	60 MIN
95 PCT VOL RECOVERED	°C	D-86	200 MAX
FBP	°C	D-86	210 MAX
PARAFFINS	WT%	G.C	MAX 3
OLEFINS	WT%	G.C	MAX 30
NAPHTHENES	WT%	G.C	MAX 0.6
AROMATICS	WT%	G.C	60 MIN
OTHERS	WT%	G.C	20 MAX
BENZEN CONTENT	WT%	G.C	40 MIN

OLEFIN



Typical properties:
these are not to be construed as specifications.

AKPC