

PGPDIG

Persian Gulf Petrochemical complementary Industries

Development and Investment Group (petrol)

- Ilam Petrochemical CO.
- Lordegan Urea Fertilizer CO.
- Urmia Petrochemical CO.
- Persian Gulf Sadaf Petrochemical CO.



Ilam Petrochemical CO.

HDPE 7000F

Properties	Method	Unit	Value
Melt flow rate			
@ 190°C & 5 kg load	ISO 1133	g/10 min.	0.04
Density	ISO 1183	kg/m ³	952
Tensile stress at yield	ISO 527-1, -2	MPa	27
Tensile strength at break	ISO 527-1, -2	MPa	>24
Elongation at break	ISO 527-1, -2	%	>500
Charpy Impact strength	ISO 179-1	kJ/m ²	NB
Shore hardness	ISO 868	D scale	64
Stress cracking resistance (F50)	ASTM 1693	hr	>600
Melting temperature	ISO 11357	°C	131
Vicat softening temperature	ISO 306	g °C	124

Applications: Tissue-like film, garment/grocery/merchandise bags, disposal waste bags, counter bags, grocery sacks, trash bags

lowpolymer Specification

Properties	Unit	Specifications
Density	gr/cm ³	0.90 - 0.94
Color		≥ 45
Viscosity (at 150°C)	CP	≥ 10
Volatile	%wt	Monitoring
Appearance		In range

Appearance	Unit	Prime	OFF SPEC
BLACK, COLOR SPOT (L)	Pieces	0	>1
BLACK, COLOR SPOT (M)	Pieces	<10	>10
BLACK, COLOR SPOT (S) (L)	Pieces	<20	>20
BROWN, YELLOW SPOT	Pieces	0	>1
BROWN, YELLOW SPOT (M)	Pieces	<10	>10
BROWN, YELLOW SPOT (S)	Pieces	<20	>20
FORIGEN MATTER	Pieces	0	>1
OTHER	Pieces	-	-

HDPE 7700M

Properties	Unit	Value	Test Method
Melt Flow Rate			
@ 190°C & 5 kg load	g/10 min	0.28	ISO 1133
@ 190°C & 21.6 kg load		9.5	
Density @ 23°C	Kg/m ³	950	ISO 1183

Mechanical Properties			
Tensile strength at break	MPa	>29	ISO527-1,2
Tensile stress at yield	MPa	24	ISO527-1,2
Stress Cracking Resistance(80°C)	hr	>1000	ASTM D 1693
Izod Notched(23°C)	Kg.cm/cm	35	ASTM D 256
Charpy impact strength	KJ/m ²	NB	ISO 179-1
Elongation at break	%	>500	ISO527-1,2
Shore hardness	D Scale	63	ISO 868

Applications: Drainage, Sewerage, Industrial, Potable water and Corrugated pipes.

DPG (gasoline)

Testing Parameter	Unit	Lab.Result	Standard Method
Appearance	-	Yellow liquid	Visual
Existing Gum	mg/100mL	16	(ASTM D381)
Density at 15/6 °C	g/ml.	0.833	(ASTM D4052, D1298)
Flash Point (Close)	°C	21	(ASTM D93)*
Total Sulfure Content	wt ppm	105	(ASTM D5453)
Mercaptan (RSH)	ppm	7/6	(ASTM D3227)
Aromatics	%wt	61/248	(DHA-GC, ASTM D6730)
Viscosity at 40 °C	CSt or (mm/S)	0/588	(ASTM D445)
Viscosity at 50 °C	CSt or (mm/S)	0/528	(ASTM D445)
Benzen	%wt	18/671	(ASTM D6730)
M.A.V	mg/g	43	(IFP 9407)
Pour Point	°C	<-42	(ASTM D97)

*Remark: << ambient

Lordegan Urea Fertilizer CO.

Granular Urea Specifications

Property	Unit	Value	Test Method
Nitrogen Content	%wt	46	ISO-5315
Moisture	%wt	0.5	ISO-2753
Biuret	%wt	1.0	ISO-2754
Formaldehyde	%wt	0.5	ISO 14184
Particle size (2.0 - 4.0 mm)	%wt	90 Min.	ISO-8397

Liquid Ammonia Specifications

Property	Unit	Value	Test Method
Purity (NH ₃)	wt%	99.8(min)	INSO-3356
Water content	wt%	0.2(Max)	INSO-3356
Oil	ppm	2.0(Max)	INSO-3356



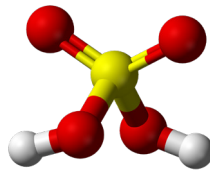
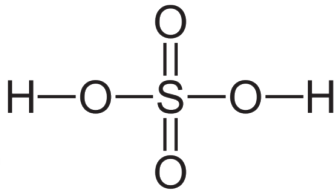
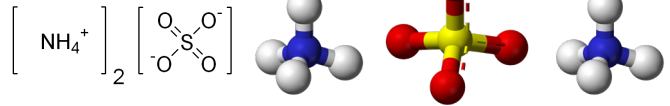
Urmia Petrochemical CO.

:: Melamine Crystal

Typical Test	Test Method	Unit	Result
purity	JIS K 1531	(w/w) %	≥99.8
Humidity	JIS K 1531	(w/w) %	≤0.1
pH	JIS Z 8802	-	7.5-9.5
Ash	JIS K 1531	(w/w) %	≤0.03
Color	JIS K 1531	Hazen (Pt - Co)	≤20
Turbidity	JIS K 1531	NTU	≤20
Solubility in HCHO	JIS K 1531	Minute	≤10
Hydrophobia Test	JIS K 1531	Minute	30-70
Size (below 80 mesh)	JIS K 1531	(w/w) %	≥80

:: Ammonium Sulphate

Property	Unit	Typical Value	Test Method
N	(w/w) %	≥20.5	ISO 5314
Humidity	(w/w) %	≤0.5	ISO 10084
SO4 (S)	(w/w) %	≥23	ISO 8190
As	(w/w) %	≤0.001	ISO 17318
Free Acid (H2SO4)	(w/w) %	≤0.2	ISO 2993



:: Sulfuric Acid

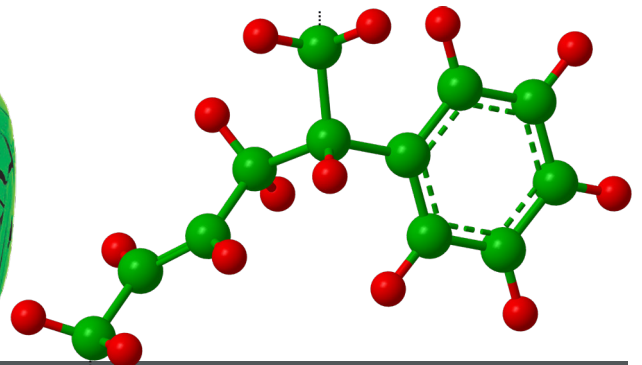
Parameter	Unit	Range	Result
Concentration	%	Min 98	98.2
Cl	ppm	Max 5	Nil
Fe	ppm	Max 60	32
Turbidity	NTU	-	<10
Density	g/cm ³	-	1.82

Persian Gulf Sadaf Petrochemical CO.



:: Emulsion Styrene Butadiene Rubber


Physical Properties	ASTM	SBR 1500	SBR 1502	SBR 1509	SBR 1712
Mooney Viscosity ML(1+4)	D-1646	48.0 - 56.0	46.0 - 56.0	31.0 - 39.0	45.0 - 55.0
Bound Styrene Normal Range (wt%)	D-5775	22.5 - 24.5	22.5 - 24.5	22.5 - 24.5	22.5 - 24.5
Oil (wt%)	D-1416	-	-	-	27.3 (typical value)
Compound Mooney Viscosity ML(1+4), 100 °C, Open mill	D-1646	64-74 (typical value)	65-75 (typical value)	65-75 (typical value)	50-64 (typical value)



ESBR



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