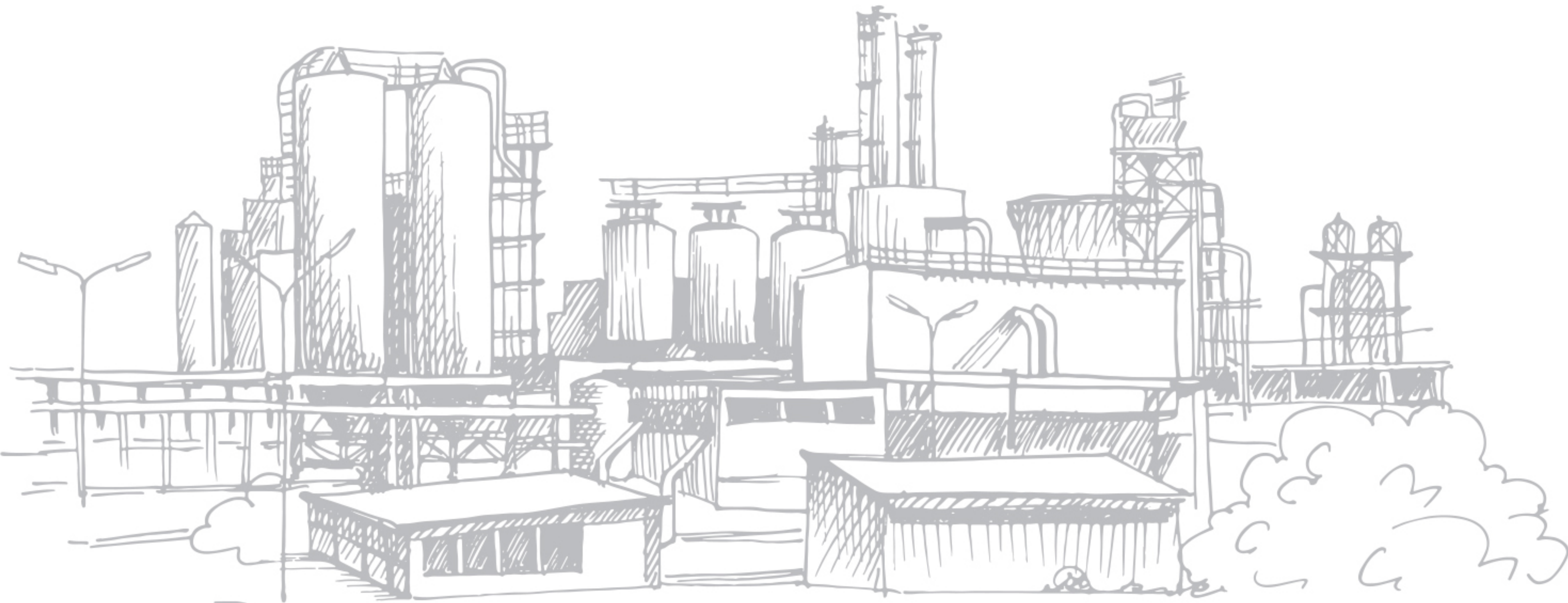


Gahar Granule Kavir Company are The manufacturer of polymer Compounds. Our production site equipped to high quality Compounders, complete quality control laboratory and expert engineering team.

Our primary goal at Gahar Granule Kavir is to provide products that not only meet international standards but also address the specific needs of each customer. Through a focus on continuous research and development. We have succeeded in creating unique polymer compounds that find applications across various industries including automotive, packaging, construction, electronics, and many others.

We are exporting our products to CIS and Middle East area with good experience.



Our Products:

HDPE
PE100
PE100
HDPE-Film grade
5110
F7000
HDPE-Rotary Molding
3840
HDPE-Blow Molding
0035
BL3
HDPE-Injection grade
52518
62N07
LLDPE
209AA
22B02
LDPE
0075
020
2119
2100
2420 H
G-SPC-11 (STEEL PIPE COATING)
G-LLDPE1 (LOW-DENSITY PIPE)

Pigment and Engineering Compound for special purposes.





G-2119 LOPE - This is a three-layer polyethylene film, designated and used in the production of blow-molded bottles. It features high transparency and high tensile strength, which allows it to withstand the stresses of blow molding. The density of the film is approximately 921 kg/m³, and the melt flow index is 1.9 g/10 min, ensuring efficient processing. The composition includes antioxidants and stabilizers to maintain durability, but it does not contain antistatic or slip agents. Recommended film thickness ranges from 20 to 50 microns. The optimal extrusion temperature for processing is between 165-185 °C, and the extrusion speed is 2-3 meters per minute.



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Property	Value	Unit	Test Method
MFI (190 OC /2 .16 Kg)	1.9	dg/min	ISO 1133
Density	921	Kg/m ³	ISO 1183 (A)
Impact strength	26	KJ/m	ASTM D 4272
Tear strength (TD)	25	KN/m	ISO 6383-2
Tear Strength (MD)	60	KN/m	ISO 6383-2
Yield stress (TD)	11	MPa	ISO 527
Yield stress (MD)	13	MPa	ISO 527
Tensile stress at break (TD)	20	MPa	ISO 527
Tensile stress at break (MD)	35	MPa	ISO 527
Strain at Break (TD)	>500	%	ISO 527
Strain at Break (MD)	>150	%	ISO 527
Modulus of Elasticity (TD)	200	Mpa	ISO 527
Modulus of Elasticity (MD)	190	Mpa	ISO 527
Coefficient of friction	>1		ASTM D 1894
Blocking	20	g	SABTEC method
Re-blocking	100	g	SABTEC method
Haze	9	%	ASTM D 1003A
Gloss (45o)	55	%	ASTM D 2457
Clarity	26	mV	
Additive: Antioxidant			



G-PE100 BLACK

HDPE100 is a black, high density polyethylene classified as PE100. Well dispersed carbon black gives outstanding UV resistance. Long term stability is ensured by an optimized stabilization system. It also shows excellent resistance to rapid crack propagation and slow crack growth



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Application

under pressure polyethylene pipes and fittings (PE gaz pipes sewerage and irrigation pipe)

Properties	ReferenceTest method	value
Melt flow index(190°C/5kg)	ISO1133-A,isiri6980-1	0.24 ± 0.03gr/10min
Melt flow index(190°C/2.16kg)	ISO1133-A,isiri6980-1	—
Density(method A-metanol 23°C)	ISO1183-1,isiri7090-1,2	0.950 ± 0.005gr/cm ³
Carbon Blak Content	ISO 6964	2.25 ± 0.25
Ash content		0.02± 0.02
Disp/Carbon Black		≥3
Elongation at Break	ISO 6964	≥ %750
Yield Strength		≥ 20 Mpa
Tensil Strength at Break		≥ 25 Mpa
Oxidation Induction Time 210°C	ISO11357	≥ 30 min
Melting Point	ISO11357-6	140°C
Escr (50°C . A :10% Igepal Co-630)	ASTM D1693	≥ 1000 hr
Total Volatiles	EN 12099	179mg/kg



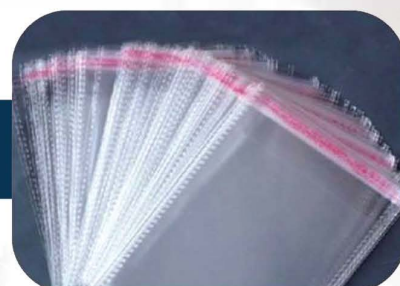
G-LLD209AA

Linear Low Density Polyethylene **0209 AA** **LL0209AA** and **LL0209KJ** are linear low density polyethylene copolymers containing **butene-1** as a co-monomer. **LL0209AA** and **LL0209KJ** are suitable for general purpose films, neat or in lean blends with **LDPE** and other ethylene polymers.



GRANULE KAVIR

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No.	Property	Value	Units	Test Method
1	MFI@190°C, 2.16KG)	0.9	g/10min	D1238
2	Density	0.920	g/ml	D2839
3	Vicat softening Point	100	°C	D1525
FILM	-	-	-	-
4	TENSILE STRENGTH @ YEILD, MD,TD	10.5/11	Mpa	D638
5	ELONGATION @ BREAK, MD,TD	620/840	%	D638
6	TENSILE STRENGTH @ BREAK, MD,TD	41/32	Mpa	D688
7	TEAR STRENGTH, MD,TD	145/370	gr/25mic	D1922
8	IMPACT STRENGTH, DART	150	g	D1709
9	HAZE	10	%	D1003
10	Gloss(45°)	56	Rating	D2457

Application

under pressure polyethylene pipes and fittings
(PE gaz pipes sewerage and irrigation pipe)



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G-F7000-31 granule polyethylene is a high-density bimodal polyethylene copolymer widely used for producing blown films. It features a transparent granular form with a density around 0.952 g/cm³ and low melt flow index, providing excellent mechanical strength, stiffness, and impact resistance. Its superior processability enables efficient film blowing to create ultra-thin yet durable films. F7000 films offer excellent resistance to stress cracking, UV degradation, and many chemicals, making them suitable for applications such as disposable gloves, food packaging, shopping bags, and medical garments. The material's combination of high



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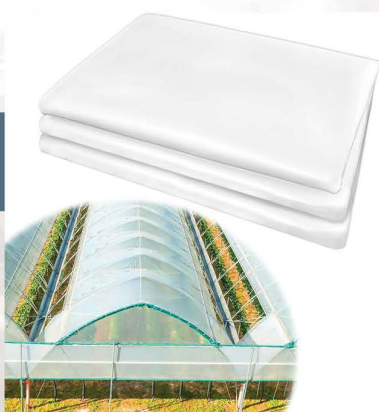
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Property

Value

Unit

Test Method

Density (23°C)	0.952	g/cm3	ISO 1183
Melt Flow Rate (190°C/2.16kg)	0.04	g/10min	ASTM D 1238
Melt Flow Rate (190°C/21.6kg)	--	g/10min	ASTM D 1238
Stress at Yield Point	250	Kg/cm2	ASTM D 638
Stress at Break	390	Kg/cm2	ASTM D 638
Elongation at Break	Above 500	%	ASTM D 638
Izod Impact	30	Kg.cm/cm	ASTM D 256
Stress Cracking Resistance	Above 600	hr	ASTM D 1693
Melting Point	131	°C	ASTM D 2117





G-BL3-11 is a premium High Density Polyethylene (HDPE) grade developed and produced exclusively by Gahar Granule Kavir, designed for high-performance blow molding and thermoforming applications.

This grade is based on Butene-1 copolymer technology, offering an excellent balance of high stiffness, good melt flow, strong impact resistance, and outstanding Environmental Stress Cracking Resistance (ESCR).

Its optimized formulation ensures stable processing, uniform wall thickness, and superior surface quality in final products.

Stabilization System:

Ca-Stearat, Irganox® 1010, Irgafos® 168

(Ensuring thermal stability, long-term performance, and processing reliability)



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Property	Value	Unit	Test Method
MFI(190°C/5Kg)	1.2±0.3	gr/10Min	ISO 1133
MFI(190°C/21.6Kg)	23±4	gr/10Min	ISO 1133
FRR21.6/5	23±4	----	----
Density	0.954±0.002	gr/cm3	ISO 1183
Notched Impact Strength	9	mj/mm2	ISO179/1eA
Swell Ratio	110±15	%	Internal Method





G-AS-511-1 is specially formulated for producing high-quality films and bags, as well as other products requiring property modification to meet specific performance needs. Our resin is produced using the advanced Lupotech G licensed technology from Basell, ensuring consistency and reliability in each batch.

Typical film properties are derived from blown films approximately 20 µm thick, extruded at a melt temperature of 220°C using a long-stalk process with a blow-up ratio of 4:1. For optimal results, we recommend processing film thicknesses between 15 and 50 µm.



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Property	Value	Unit	Test Method
Physical Properties			
Density (23 °C)	951	kg/cm ³	ISO 1183
MFI (190 °C /21.6Kg)	10	dg/min	ISO 1133
Mechanical properties			
Tensile Modulus of elasticity	1050	MPa	ISO527-1;2
Tensile Strength (MD)	55	MPa	ISO 527-1;3
Tensile Strength (TD)	55	MPa	ISO 527-1;3
Tensile Strain at Break (MD)	580	%	ISO 527-1
Tensile Strain at Break (TD)	620	%	ISO 527-1
Tensile stress at Yield	26	MPa	ISO 527-1
Tensile strain at Yield	10	%	ISO 527-1
Elmendorf tear strength(MD)	250	mN	ISO 6383-2
Elmendorf tear strength(TD)	800	mN	ISO 6383-2
Thermal Properties			
Melting Point	132	°C	ISO 3146
Vicat Temperature , (A50,50 °C/h , 10 N)	127	°C	ISO 306
Additive :Antioxidant –Heat stabilizer Zinc Stearate			



G-3840-11



G-3840-11 is a high-quality linear medium-density polyethylene (LMDPE) copolymer produced by GAhar Granule Kavir, utilizing 1-butene as the comonomer and featuring a narrow molecular weight distribution. This UV-stabilized resin is engineered to deliver excellent processability, high stiffness, fast grinding performance, and superior mechanical properties. G-3840 offers outstanding impact strength and environmental stress crack resistance (ESCR), along with excellent internal and external surface finish, making it an ideal choice for demanding industrial applications.



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Property	Value	Unit	Test Method
MFI(190°C/ 2.16Kg)	4.0	gr/10Min	ASTM D 1238
MFI(190°C / 5.0Kg)	-		
Density	0.938	gr/cm ³	ASTM D 1505
Formulation			
Anti Oxidant			✓
UV Stabilizer			✓
Mechanical Properties			
Flexural Modulus	900	Mpa	ASTM D 790
Tensile Strength at yield	18	Mpa	ASTM D 638
Elongation at Break	900	%	ASTM D 638
Charpy Impact Strength	18	Kj/m ²	ASTM D 256
Hardness Shore D	62	-	ASTM D 2240
ESCR, F50, 100% Igepal,	400	hr	ASTM D1894
Thermal Properties			
Vicat Softening Temperature	117	°C	ASTM D 1525
Melting Point	127	°C	ASTM D2117

The above data are typical laboratory average. They are intended to serve as guide only.





G-2420-11 – Linear Low-Density Polyethylene (LLDPE) without additives, supplied in granular form and intended for the production of high-quality films.

The material offers an optimal combination of processability, transparency, and mechanical properties.

Density: 0.924 g/cm³ and melt flow rate (MFR): 1.9 g/10 min (190° C/2.16 kg) ensure stable processing by both blown film and cast film methods.

Main advantages:

Excellent transparency and high gloss (>100)

Low haze (<8%)

Good tensile strength and elongation at break

Reliable impact strength



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Property	Value	Unit	Test Method
Density	0.923	g/cm ³	ISO 1183
Melt flow rate (MFR)(190°C/2.16Kg)	0.25	g/10 min	ISO 1133
Tensile Modulus	240	Mpa	ISO 527-1,-2
Tensile Stress at Yield	10	Mpa	ISO 527-1,-2
Tensile Strength at Break MD/TD	27/20	Mpa	ISO 527-1,-3
Tensile Strain at Break MD/TD	200/500	%	ISO 527-1,-3
Dart Drop Impact (50 blown film)	250	g	ASTM D 1709
Vicat softening temp (A50 (50°C/h 10N))	94	°C	ISO 306
Haze (50)	<14	%	ASTM D 1003
Gloss (60° , 50)	>50		ASTM D 2457





G-2420-11 – Linear low-density polyethylene (LLDPE) without additives, supplied in granular form and intended for the production of high-quality films.

The material has an optimal combination of processability, transparency, and mechanical properties.

Density: 0.924 g/cm³ and melt flow rate (MFR): 1.9 g/10 min (190° C/2.16 kg) ensure stable processing by both blown film and cast film methods.

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Property	Value	Unit	Test Method
Density	0.924	g/cm ³	ISO 1183
Melt flow rate (MFR)(190°C/2.16Kg)	1.9	g/10 min	ISO 1133
Tensile Modulus	260	Mpa	ISO 527-1,-2
Tensile Stress at Yield	11	Mpa	ISO 527-1,-2
Tensile Strength at Break MD/TD	26/18	Mpa	ISO 527-1,-3
Tensile Strain at Break MD/TD	250/600	%	ISO 527-1,-3
Dart Drop Impact (50 blown film)	110	g	ASTM D 1709
Vicat softening temp (A50 (50°C/h 10N))	94	°C	ISO 306
Haze (50)	<8.0	%	ASTM D 1003
Gloss (60° , 50)	>100		ASTM D 2457



G-0035-11



G-0035-11 can be processed in most types of blow moulding equipment including HDPE or LDPE extruders. It is suitable for producing hollow article in extrusion blow moulding process. A single screw extruder with a barrel of 25D to 30D long, smooth walled grooved feed section and/ or with decompression, mixing and shearing sections with 20D to 25D screw length are typical extruders for blow moulding of containers. This arrangement minimizes thermal degradation of melt and provides a high plasticizing capacity coupled with good extrudate quality.



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Property

Value

Unit

Test Method

MFI(190°C/ 2.16Kg)	0.4	gr/10Min	ASTM D 1238
Density	0.959	gr/cm ³	ASTM D 1505
Izod impact strength	25 min	Kg.cm/cm	ASTM D 256
Yellow index	-5 max .	--	ASTM D 1925
Ash content	0.06 max	wt%	ASTM D 1063
Volatile matter	0.05 max.	wt%	ASTM D 1960
Tensile strength @ break	290 min	gr/cm ³	ASTM D 638
Elongation @ break	900 min	%	ASTM D 638
Melting point	130	° C	ASTM D 2117
Vicat softening point	126	° C	ASTM D 1525
ESCR	15	hr	ASTM D 1693



G-SPC11 (STEEL PIPE COATING) <<

G-SPC11 is a black high-density polyethylene (HDPE) compound for steel pipe coating applications. It delivers outstanding melt strength for extrusion processes, along with superior mechanical properties and excellent environmental stress crack resistance (ESCR).

Formulated with a specialized package of antioxidants and well-dispersed carbon black, G-SPC11 ensures robust weathering resistance in demanding environments.

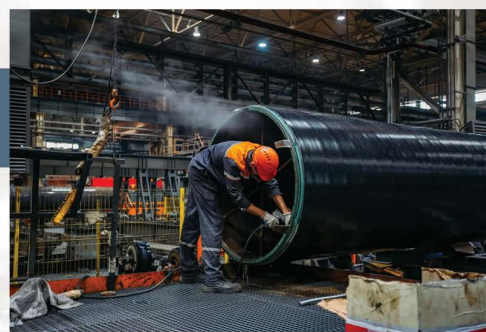
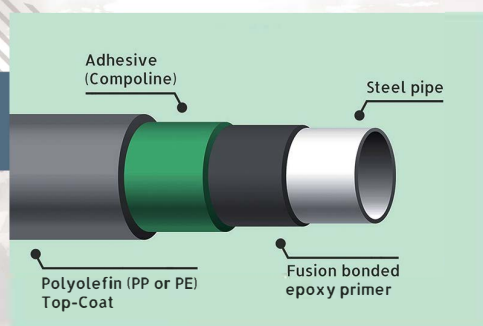
This compound is classified as a non-dangerous material, making it suitable for a wide range of industrial applications.

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Property

Units

Range

Value

Test Method

Melt Flow index (190° C/2.16 kg)	gr/10 min	0.30 - 0.45	0.32	ISO 1133
Density (Compound) at 23±2 °C	gr/cm3	0.941 - 0.955	0.945	ISO 1183
Yield Strength at 23±2 °C (50 mm/min)	MPa	≥15	>16	ISO 527
Tensile strength at Break at 23±2 °C (50 mm/min)	MPa	≥18	27	ISO 527
Elongation at Break at 23±2 °C (50 mm/min)	%	≥600	>820	ISO 527
O.I.T. at 210 °C	Minutes	≥30	>60	ISO 11357
Melting Point (DSC Method)	°C	≥125	135	ISO 11357
Hardness	Shore D	≥55	>60	ISO 868
Vicat Softening Point (A/50, 9.8 N)	°C	≥120	121	ISO 306
Carbon Black Content	%	2.0 - 2.5	2.2	ASTM D 1603
Carbon Black Dispersion	Grade	≤3	1.1	ISO 18553
Brittleness temperature	°C	≤-70 (No Fracture)	No Fracture	ASTM D 746
E.S.C.R. (50° C,Fo)	Hours	≥1000	≥1200 hr	ASTM D 1693
Water Content	Weight%	Max. 0.05	0.01%	ISO 15512
Thermal Aging	% ΔMFI	Max. 35	5%	ISO 21809-1. Ann.G
UV Resistance	% ΔMFI	Max. 35	11%	ISO 21809-1. Ann.G



G-AD11



G-AD11 (ADHESIVE COMPOLINE) — это современный специализированный адгезионный агент, разработанный для улучшения сцепления между полиэтиленом и эпоксидными покрытиями с термосваркой (FBE). С высоким содержанием ангидрида maleиновой кислоты он обеспечивает превосходную адгезию на межфазном уровне при низком расходе, что оптимизирует как эффективность, так и затраты. Предназначен для сложных промышленных задач, таких как системы покрытия трубопроводов, ADHESIVE COMPOLINE гарантирует прочность, стабильность и надежность покрытия, способствуя увеличению срока службы и устойчивости к расслаиванию в жестких условиях эксплуатации.



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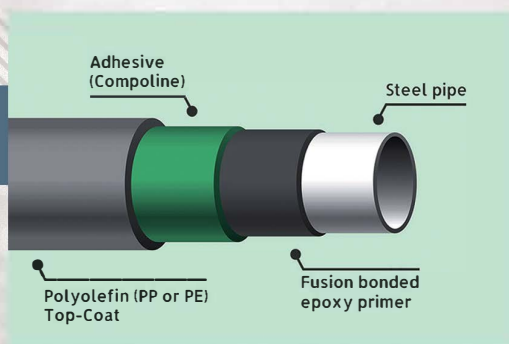
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Property

Units

Range

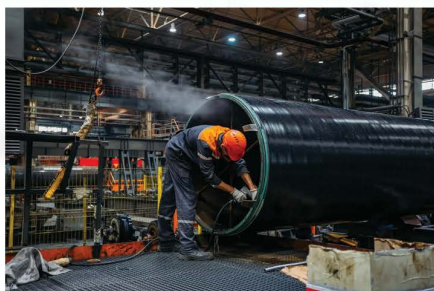
Value

Test Method

Melt Flow index (190° C/2.16 kg)	gr/10 min	1.00 - 1.80	1.33	ISO 1133
Density (Compound) at 23±2 °C	gr/cm3	0.920 - 0.940	0.932	ISO 1183
Tensile Yield Strength at 23±2 °C (50 mm/min)	MPa	≥8	11	ISO 527
Elongation at Break at 23±2 °C (50 mm/min)	%	≥600	710	ISO 527
O.I.T. at 210 °C	Minutes	≥20	>30	ISO 11357
Vicat Softening Point (A/50, 9.8 N)	°C	≥95	101	ISO 306
Water Content	Weight%	≤0.05%	0.02%	ISO 15512



DN250 STEEL PIPE COATING 3 LAYERS TEST RESULT



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Property		Units	Range		Test Method	Value
FBE layer thickness		μm	200 to 300		ISO 2808 or ASTM D4138	236
Adhesive layer thickness		μm	150 to 250		ISO 2808 or ASTM D4138	180
Minimum total thickness of coating, Pipe diameter, mm (in): DN 250 (10)		mm	2.5		ISO 21809-1 (Annex A)	2.72
Appearance of coating		--	Uniform colour; free of defects and discontinuities, delaminations, separations		Visual	ok
Continuity / Holiday detection (maximum speed: 0.3 m/s)		--	No holidays		ISO 21809-1 (Annex B)	No holidays
Impact resistance, min	at 23±2°C	J/mm	7		ISO 21809-1 (Annex E)	No cracks and defects
	at -30±3°C		3			No cracks and defects
Indentation, max	at 23±2°C	mm	0.2		CSA Z245.20 Series- 14 (Clause 12.12)	0.09
	at 80±3°C		0.4			0.27
Elongation at break at 23±2°C, min		%	400		ISO 527-1 and -3	576
Peel strength (Adhesion)	at 23±2°C	N/mm	Peeled surface shall be cohesive. Nobare steel after peeling	>15	ISO 21809-1 (Annex C)	38.1
	at 80±3°C			>3		7.2
Product Stability during application of the PE top layer process (In process degradation of PE)		%	ΔMFR ≤ 20 for PE (virgin compounded granulate before application/ coating after application of the same batch)		ISO 1133-1 or ASTM D1238	3.1
Average radius of cathodic disbondment , max	at 65±3°C/ 24 h/ -3.5 V	mm	5		ISO 21809-1 (Annex H)	1.7
	at 23±2°C/ 28 d/ -1.5 V		5			2.0
	at 80±3°C/ 28 d/ -1.5 V		12			7.1
Flexibility		--	No cracking at an angle 2.5° Per pipe diameter length		No crack	
Hot water immersion test		mm	Average ≤2 and maximum ≤3		0.70	

