



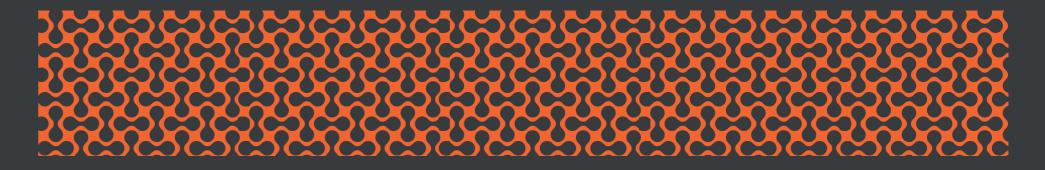


WIRE and CABLE Compounds

(Power and Communication XLPE, Jacketing and HFFR)

PIPE

Steel Pipe Coating
PEX Pipes and Drip Irrigation



ABHAR POLYMER COMPOUNDS

Abhar Polymer Compounds Co. (APC) is Iran oldest and most reputable polymer compounding plant with nearly three decades of experience. APC is a system company with Abhar Wire and Cable Co. which is by far, the most important supplier of cables to Iran's hydrocarbon industry in addition to catering a large number of other projects.

Utilization the best European production equipment, extensive laboratory facilities, and the services of the country's leading engineers and polymer scientists; APC has been able to produce compounds of the highest quality with a consistency that has made it an irreplaceable supplier to Iran and Middle East's leading companies in wire and cable, automotive, white goods, pipes, and building suppliers.

Our unerring attention to quality and the continuous consistency of our products enable to increase production speeds and reduce scarp, thus providing unrivalled value.

Polyolefin compounds are our specialty. TRUST US.

Wire & Cable

Crosslinkable Polyethylene Compounds for Low Voltage Cable Insulation Polyethylene Compounds for Jacketing of Communication & Power Cables Halogen Free Flame Retardant Compounds (HFFR)

Pipe Industry

Polyethylene Compounds for Steel Pipe Coating Crosslinkable Polyethylene Compound for Heating Pipes (PEX) Polyethylene Compounds for Drip Irrigation Pipe

WIRE and CABLE Compounds

(Power and Communication XLPE, Jacketing and HFFR)

CABLE INSULATION COMPOUNDS											
Grade	Density	Density MFI General Description									
APXLP13	0.920±0.005	3.5±0.5	APXLP13 is suitable for insulating low-voltage cables up to 1kV. It is suitable for use in high-speed XLPE cable insulation lines. It can be processed in combination with its catalyst masterbatch (APXLP13- APCAT13N).	Power Cables, Communication Cables, Industrial Applications, Automotive Use							
APXLP23	0.915±0.005	4.5±0.5	APXLP23 is suitable for insulating low-voltage cables up to 1kV. It is suitable for use in high-speed XLPE cable insulation lines. It can be processed in combination with its catalyst masterbatch (APXLP23- APCAT13N).	Power Cables, Communication Cables, Industrial Applications, Automotive Use							
APXLP12BC	0.935±0.005	4.0±0.5	APXLP12BC is a type of XLPE (Cross-Linked Polyethylene) that crosslinks when exposed to moisture. It can be processed in conventional extrusion machines in combination with its catalyst master batch (APXLP12BC-APCAT12N). It contains 2.5% well-dispersed carbon black to ensure excellent weather resistance.	Electric Distribution Grids, Aerial Bundled Cables							

POLYETHYLENE CABLE INSULATION AND JACKETING COMPOUNDS

Grade	Density	MFI	General Description	Application		
APJAC03	0.945±0.005	0.30±0.05	STAR-C3 is a natural-colorable high-density polyethylene compound suitable for jacketing purposes. It contains a UV stabilizer to ensure excellent UV protection and an antioxidant to achieve excellent long-term properties.	Electrical Cable and Wire Manufacturing, Electric Power Distribution		
STAR-C3-OR	0.945±0.005	0.30±0.05	STAR-C3-OR is a high-density polyethylene compound designed for jacketing applications and is capable of being colored orange. It is formulated with a UV stabilizer to provide exceptional UV protection, and an antioxidant is incorporated to achieve outstanding long-term performance.	Electrical Cable and Wire Manufacturing, Electric Power Distribution		
STAR-C35	0.940±0.005	0.50±0.10	STAR-C35 is a natural-colorable low-density polyethylene compound suitable for jacketing purposes. It contains a UV stabilizer to ensure excellent UV protection and an antioxidant to achieve excellent long-term properties.	Electrical Cable and Wire Manufacturing, Power Distribution and Transmission		
STAR-C4	0.935±0.005	0.50±0.05	STAR-C4 is a linear low-density compound designed for the jacketing of power and communication cables. It contains 2.5% well-dispersed carbon black to ensure excellent weather resistance.	Electric Power Distribution, Communication Infrastructure		
STAR-C5	0.950±0.005	0.30±0.03	STAR-C5 is a black high-density polyethylene compound suitable for jacketing and insulation purposes. It contains 2.5% well-dispersed carbon black to ensure excellent weather resistance. An antioxidant is added to achieve excellent long-term properties.	Power Distribution and Transmission, Telecommunication Infrastructure		

HALOGEN FREE FLAME RETARDANT COMPOUNDS

Grade	Density	LOI	General Description	Application
APLSI	1.45±0.02	32±1	Excellent electrical & mechanical properties	Insulating for LV Power Cables, Communication Cables
APLSJ	1.45±0.02	32±1	Excellent mechanical properties and low water permeability, UV resistance	Jacketing for LVPower Cables, Communication Cables
APLSB	1.50±0.02	32±1	High processability	Jacketing for LV

PIPE Compounds

Steel Pipe Coating PEX Pipes and Drip Irrigation

STEEL PIPE COATING COMPOUNDS												
Grade	Density	Density MFI General Description										
APPOL01	0.948±0.005	0,47±0.03	excellent Strengh and toughness in wide range of temperature(-30 to 85 C) Very good mechanical properties and resistant to stresses caused by soil and environmental factors	Steel Pipe Coating								
APTIL01	0.930±0.005	1.5±0.5	Adhesive as tielayer with excellent Strengh and toughness in wide range of temperature, very good mechanical properties	Steel Pipe Coating								

PEX PIPE COMPOUNDS													
Grade	Density	Density MFI General Description											
APPEX14	0.945±0.005	2,4±0.3	highcrosslinking density and good surface smoothness, high mechanical properties and performance in processability	PEX/AL/PEX									
APPEX24	0.937±0.005	4,3±0.3	High speed production, highcrosslinking density and good surface smoothness, high mechanical properties and performance in processability	PEX/AL/PEX									

Crosslinkable Polyethylene Compounds for Low Voltage Cable Insulation

APXLP12 and APXLP13 are moisture-Crosslinkable polyethylene compounds that have offered the preferred insulation for power cable. APXLP12BC is ideal choice for Self-supporting aerial cable. APXLP-insulated cables have: rated maximum conductor temperature of 90°C and an emergency rating of up to 140°C. APXLP compounds art well-suited for most processing techniques and post-curable by steam.

Polyethylene Compounds for Jacketing of Communication G Power Cables

Extra-tough thermoplastic compounds base on nigh density polyethylene or liner low density polyethylene, to be used as insulation or sheathing in wire and cable industries. APJAC arades are ideal choice for power cables sheathinc and APINS arad offers solutions for telecom insulation and jacketing. APJAC is characterized by excellen environmental stress crack performance along with excellent processability during extrusion, high thermal stabilit and UV resistance.

Halogen Free Flame Retardant Compounds (HFFR)



Our proprietary APLS are halogen free flame retardant (HFFR) compounds, that exhibit reduced heat release and smoke generation. and produce no corrosive das emissions. These reduced hazard materials decrease the risk to health and life as well as secondary fire damage to equipment and installations. Our excellent characteristic compounds offe a wide range of applications as Low voltage power cables, Control & data cables, coaxial cables, Optical cable and also contribute to environmental sustainability.

Crosslinkable Polyethylene Compound for Heating Pipes

APPEX 14 and APPEX 15 are two-step, silane-grafted, moisture cross-linkable high density polyethylene system (XLPE). These products allows for a distinct advantage over regular polyethylene: greatly improved heat resistance. Made by following the Sioplas two-step technology. EX pipes manufactured by APPEX have features include: Excellent heat resistance to 90°C, Excellent environmental stress crack resistance (ESCR), High resistance to scratch, abrasior and chemical functions. Good resistance to rapid propagation of tension. Excellent creep resistance to 95°C.

High Density Polyethylene Compounds for Steel Pipe Coating

Corrosion protections of underground pipelines are performed by corrosion protective coatings and cathodic protection system at the same time. APPOL product from abhar polymer compounds is based on high densit polyethylene, which used in order to protect corrosion in the pipeline industries. APPOL features include: Excellent Strength and toughness in wide range of temperature (-30 to 85°C), High resistance to weather conditions, Excellent resistance against chemical agents, Very good mechanical properties, Very low consumption of electrical energy at cathodic protection due to good dielectric properties.

	Melt F	low Index	(gr/10min)	Density	Tensile Strength	Elongation at Break	Tensile Strength at	Hardness	LOI	Vicat Temperature	Thermal	Brittleness	Water	Volume	Melting	E.S.C.R (hr)	Carbon Black	Gel	Carbon Black	Hot Set Elongation Permanent Elongation	on Under Load (%) ion after Cooling (%)	Ageing Tensile Strength	О.),I,T
	190 C/2.16kg	190 C/5kg	150 C/21.6kg	(gr/cm³)	(Mpa)	(%)	Yield (Mpa)	Shore D		(°C)	Ageing	Temperature	Content	Resistivity	Point	50° c.Cond.B -10% Igepal	Content(%)	Content	Dispersion	0.2 MPa	0.3 MPa		220°c	200°c
APXLP12 BC		4±0.5		0.930±0.005	≥23	≥500		52±2	-				-	-			2.5		-	-	100 15	25 ⁽¹⁾ 25		-
APXLP13		3.5±0.5	-	0.920±0.005	≥26	≥500	-	54±2	-		-		-					-		100 15	-	25 ⁽¹⁾ 25	-	
APXLP23		4.5±0.5	-	0.920±0.005	≥25	≥500	-	54±2			-	-			-	-	-	-	-	100 15	-	25 ⁽¹⁾ 25	-	
APJAC03	0.32±0.02		-	0.940±0.005	≥29	≥800	-	58±2	-		-	<-70		10 ¹⁶		>5000		-		:	:	10 10		min 30
APJAC04	0.5±0.03	-	-	0.938±0.003	≥29	≥900	-	54±2			-	<-70		10 15	-	>1000	-	-	-	:	-	10 10	-	-
APJAC05	0.3±0.02	-	-	0.945±0.005	≥27	≥900	-	58			_	<-70		10 ¹⁶	-	>5000	2.5	-	max 2.5	:	-	10 10	-	min 30
APLSI01	-	-	7±2	1.45±0,02	≥12	≥200	- 	53±2	32		-	-		-	-	-	-	-	-	-	-	25 ⁽⁵⁾ 25	-	-
APLSJ01	-	-	7±2	1.45±0,02	≥12	≥200	-	53±2	32			-		-	-			-	-	:	-	25 ⁽³⁾ 25		-
APLSB01	-	-	5±2	1.47±0,02	≥13	≥180	.	55±2	32			-			-				-	:		:	-	-
APPOL01	0.47±0.03	2.4±0.3	-	0.948±0.005	≥23	≥800	≥19	59±2		≥120	ΔMFI≤35	<-70	≤0.05		125	>1000 (4)	2.5	-	max 2.5	:	-	:	min 30	-
APPEX14	-	-	-	0.945±0.005	≥27	≥500	-	-	-		-	-	-				-	min 65	-	:	-	:	-	-
APPEX24	-	4.3±0.3	-	0.937±0.005	≥23	≥500	 	-										min 65		- -		:		·
APTIL01	1.5±0.5	-	-	0.930±0.005	≥17	≥600		58±2	-	104±3	-	-	-	-	138±5	-	-	-	-	:	-	:		min 30