



WIRE and CABLE COMPOUNDS

SPECIAL COMPOUNDS



**Ghazvin
Granules
Producing**



Ghazvin Granules Producing (GGP) Company is the Iranian oldest and most reputable PVC compounding company that starting out in the 1970s with basic compounds for shoes, wires, cables, windows and floor coverings. Currently the company produces all special and standard PVC grade compounds such as low smoke, oil resistant, high and low temperature and many other compounds required by our clients. Utilizing the best European production equipment, extensive laboratory facilities, and the services of the country's leading engineers and polymer scientists, GGP has been able to produce compounds of the highest quality with a consistency that has made it an irreplaceable supplier to Iran and the Middle East's leading companies in compounding industries. Our unerring attention to quality and the continuous consistency of our products enables our customers to increase production speeds and reduce scrap, thus providing unrivaled value. GGP is part of the Noarin industrial complex one of Iran's most prominent privately held industrial complexes. The group has been interested in various fields including trade and commerce, construction, machine manufacture and wire and cable such as Abhar Cable which is the Iranian leading manufacturer of wire and cable and a well-known player in the regional market. Access to the group's massive resources provides security for our customers, as well as the ability to continuously test and improve products in a real manufacturing environment that few other commercial compound producers have such open access to.

Wire and Cable Compounds

(Insulation, Bedding, and Filler)

Ghazvin Granule Producing (GG) Company is the premier supplier of the national and international wire and cable industry which produces the full range of PVC based cable compounds. PVC is widely used in electrical cable construction for insulation, bedding, filler, and sheathing which is cost-effective and also has excellent aging properties and typically exceeds a 25 to 30 year service life. Our PVC based material for cable manufacturer have been produced in different types of Normal grade, Anti-termite, Anti-rodent, Oil-resistance, Low-smoke, and Flame-retardant.

Insulation	Classification				Density (g/cm ³)	Hardness (Shore A)	Tensile Strength (N/mm ²)	Elongation at break (%)	Thermal Stability at 200°C (min)
	IEC60227	IEC60502	BS 6746	ISO6722					
GPI7548 - Flexible installation cables/high speed extrusion	PVC/D		TI2		1.48±2	80±2	14	≥270	80
GPI7643 - Flexible installation cables/high speed extrusion	PVC/D		TI2		1.43±2	78±2	14	≥320	70
GPI8245 - Flexible installation cables		PVC/C	TI1		1.45±2	84±2	16	≥280	90
GPI8445 - Instrument and control cables/thin wall extrusion		PVC/A	TI1		1.45±2	84±2	16	≥280	80
GPI8450 - Fixed installation cables	PVC/C		TI1		1.50±2	84±2	14	≥280	80
GPI8648 - Instrument and control cables/thin wall extrusion		PVC/A	TI1		1.48±2	86±2	16	≥250	70
GPI8652 - Fixed installation cables	PVC/C		TI1		1.52±2	88±2	15	≥250	80

Insulation for high temperatures									
GPI8348HT - Refrigerator wires insulation	PVC/E				1.48±2	83±2	17	≥250	160
GPI8440HT - Automotive cables	PVC/E			grade A/B	1.40±2	84±2	17	≥330	240
GPI8941HT - Automotive cables	PVC/E			grade A/B	1.41±2	89±2	21	≥320	200
GPI9040HT - Operating temperature 105°C	PVC/E				1.40±2	90±2	18	≥280	180

Bedding and Filler	Density (gr/cm ³)	Hardness (Shore A)	Tensile Strength (N/mm ²)	Elongation at break (%)	L.O.I. (%)	Thermal Stability at 200°C (min)
GPB9068 - Bedding	1.68±2	90±2	12≤	200≤		70
GPB8060 - Filler	1.60±2	84±2	10≤	250≤		60
GPB8890 - Filler	1.90±2	86±2	3≤	190≤		60

Low Smoke bedding						
GPB9060LS	1.65±2	90±2	12≤	200≤	30	60

Sheathing	Classification				Density (g/cm ³)	Hardness (Shore A)	Tensile Strength (N/mm ²)	Elongation at break (%)	L.O.I. (%)	Thermal Stability at 200°C (min)
	IEC60227	IEC60502	BS 6746	VDE 0207						
GPS7548 - Flexible cables / high speed extrusion	ST5		TM2		1.48±2	82±2	14 ≤	280 ≤		90
GPS7643 - Flexible cables / high speed extrusion	ST5		TM2		1.43±2	75±2	14 ≤	300 ≤		70
GPS8245 - Flexible cables / high speed extrusion	ST5		TM2		1.45±2	82±2	16 ≤	290 ≤		80
GPS8445 - General purpose / fixed installation cables	ST4	ST1	TM1		1.45±2	84±2	16 ≤	290 ≤		80
GPS8450 - General purpose / fixed installation cables	ST4	ST1	TM2		1.50±2	84±2	14 ≤	270 ≤		80
GPS8648 - General purpose / fixed installation cables	ST4	ST1	TM3		1.48±2	86±2	16 ≤	260 ≤		80
GPS8652 - General purpose / fixed installation cables	ST4	ST1	TM4		1.52±2	89±2	15 ≤	230 ≤		90
GPS8440 - Clutch Wire Sheathing					1.40±2	84±2	17 ≤	300 ≤		80

Sheathing for high temperatures										
GPS9045 - Operating temperature 90°C/ UV resistant		ST2			1.45±2	90±2	19 ≤	280 ≤		90
GPS9054 - Operating temperature 90°C		ST2	type9	YM5	1.54±2	90±2	17 ≤	260 ≤		90
GPS8440HT - Operating temperature 105°C					1.40±2	84±2	18 ≤	300 ≤		180
GPS9040HT - Operating temperature 105°C	ST10				1.40±2	90±2	19 ≤	280 ≤		180

Flame Retardant, Low Smoke and oil Resistance sheathing										
GPS7030OR - Oil resistant sheathing (90°C, 4 hr)/ flexible cables	ST9				1.30±2	70±2	17 ≤	400 ≤		80
GPS8450OR - Oil Resistance Sheathing (70°C, 4 hr)		ST1/ST2			1.50±2	84±2	14 ≤	250 ≤		80
GPS9054OR - Oil Resistance Sheathing (70°C, 4 hr)		ST1/ST2			1.45±2	90±2	18 ≤	300 ≤		80
GPS90540R - Oil resistant sheathing (70°C, 4 hr)/ Operating temperature 90°C		ST2	type9	YM5	1.54±2	90±2	18 ≤	250 ≤		80
GPS9045F-OR - Oil Resistance (70°C, 4 hr)/ Flame Retardant Sheathing		ST1/ST2			1.45±2	90±2	18 ≤	280 ≤		180
GPS9053LS-OR - Oil Resistance (70°C, 4 hr)/ Flame Retardant Sheathing		ST2	type9	YM5	1.56±2	90±2	14 ≤	250 ≤	29≤	100
GPS9045F - Flame Retardant Sheathing		ST1/ST2			1.45±2	90±2	20 ≤	300 ≤		80
GPS9054F - Flame retardant/ Operating temperature 90°C		ST2	type9	YM5	1.54±2	90±2	20 ≤	250 ≤		80
GPS9056LS - Low Smoke Sheathing		ST2	type9	YM5	1.56±2	90±2	14 ≤	220 ≤	29≤	100

Special Compounds

(Gasket, Water stop, ...)

Our PVC compound used in refrigerator and freezer gasket has special qualities to meet the need of excellent sealing capabilities (antifungal, antimicrobial) and energy consumption reduction of refrigerators. Moreover, these material could be used as window and door gaskets which can have a great effect on the durability of the hardware, as well as the window's overall energy efficiency.

Profile Gasket	Density (gr/cm ³)	Hardness (Shore A)	Tensile Strength (N/mm ²)	Elongation at break (%)	Thermal Stability at 200°C (min)
GPR60	1.30±2	55±2	10≤	400 ≤	35
GPR65	1.27±2	65±2	15≤	400 ≤	35
GPR70	1.30±2	70±2	16≤	400 ≤	35
PKD75W	1.45±2	75±2	14≤	250 ≤	35

PVC Water-stop is a highly elastic waterproof profile used in stop end joints, expansion joints and concrete structures, thus ensuring perfect hydraulic sealing and absorption of mechanical and natural stress.

Main applications: Dams, reservoirs, hydroelectric power stations, tunnels, overhead tanks, water treatment plants, insulation walls, swimming pools, terraces, etc. The PVC Water-stop is produced form of high quality PVC compounds, designed for sealing construction as fallow characterization:

Water Stop	Classification	Density (gr/cm ³)	Hardness (Shore A)	Tensile Strength (N/mm ²)	Elongation at break (%)	Thermal Stability at 200°C (min)
GPW6828Y	CRD-C-572-74	1.28±2	67±2	13≤	300≤	90

In addition to the above products, we are able to produce any compound to the specifications of our customers. Our engineers and scientists are able to consult with our clients to develop compounds tailor-made to their requirements.

