



PVC GRANULES

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PVC GRANULES FOR HOSE INDUSTRY

In the production of PVC hoses, various types of PVC granules are used. The type and grade of these granules are related to the type of hose, its appearance and the climatic conditions of the region in which the hose is used. Due to the fact that often, the outer layer of the hose affects the appearance of the hose and its inner layer is in contact with the liquid, usually two or three different grades are used in the production of hoses.

In order to increase the elasticity of the hoses, TPE granules, which are a combination of PVC and NBR, are used. These types of hoses are more flexible and durable than PVC hoses. Also, if necessary, anti-UV additive is used to increase the product's resistance to the sun's ultraviolet rays.

Plastic Kar Company produces and offers all kinds of hose granules in various grades and colors based on the needs of customers. Our experience in the production and export of PVC hoses has provided the possibility of providing technical advice to hose manufacturers in the field of supplying PVC granules they need:

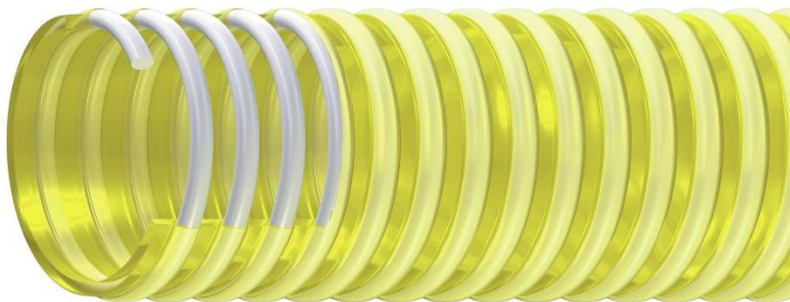
- Spiral Hose
- TPE Hose
- Transparent and Crystal
- Carbonate Granules



SPIRAL HOSE

The latest type of PVC hoses are made of two parts. The soft part is made of soft PVC and the middle part is made of rigid PVC and is produced in spiral form.

These hoses are characterized by high flexibility and tensile strength and resistance to chemicals and corrosion. For the production of spiral hoses, which are growing in consumption, rigid granules are used, which PlasticKar Company has been proud of producing and exporting for many years.



Product Name	Spiral hose granules
Other Names	UPVC for spiral hose
Product Code	GHSP-N (Milky)
Application	Spiral Hose Production
Features	<ul style="list-style-type: none"> ▪ Production based on Global Standards ▪ Production based on customer requested mechanical properties
Color	Milky Production capability in diverse colors according to customer request.
Packaging	In 25 kg bags of transparent polyethylene and finally bags are packed on wooden pallets. The weight of the pallets is approximately 1250 kg. The package can be changed according to customer request.

Technical Data sheet

Product Code: GHSP-N

Application: Spiral Hose

Color: Milky (Colorless/Natural)

Form: Granule

Packaging: 25 KG PE Bag / Palletized

Storage: Dry place, away from sun shine and temperature lower than 30°C

Properties	Test Method	Units	Typical Value
Tensile strength	ASTM-D638	N/mm ²	23±0.5
Elongation at break	ASTM-D638	%	98±10
Gravity	ASTM-D1895	G/CM ³	1.39±0.03
Hardness	ASTM-D2240	Shore A	97±2
Thermal stability at 200°C	ASTM-D749	MIN	70
Operating Temperature	---	°C	80
Properties after aging 7 days at 100°C			
Tensile strength	ASTM-D638	N/mm ²	21±0.5
Elongation at break	ASTM-D638	%	80±10

Processing Conditions:

The following temperature profile is recommended as a guide line.

Barrel Temperature: (±10 °C)			
Zone 1	Zone 2	Zone 3	Zone 4
170	180	185	190

These data, which are based on test results of major sample lots, are believed to be reliable. However, due to variation in ways of handling by consumers, recommendations are made without guarantee. These data are to be served only as a guide. The user must, by test or otherwise, determine suitability for this purpose. Our standard term and conditions of sale apply exclusively to all orders. No one is authorized by us to make oral warranties. We reserve the right to make changes without notice or obligation in our products and publications.

TPE HOSE



In order to increase the elasticity of the hoses, TPE granules, which are a combination of PVC and NBR, are used. These types of hoses are more flexible and durable than PVC hose.

TPE hoses have a rubber phase that increases its mechanical properties compared to other hoses. These hoses are commonly used in industrial applications that are subjected to high operating pressures.

Product Name	TPE Hose Granules
Other Names	TPE granules for hose
Product Code	GHE-B (Black)
Application	TPE Hose Production
Features	<ul style="list-style-type: none"> ▪ Production based on Global Standards ▪ Production based on customer requested mechanical properties
Color	Black Production capability in diverse colors according to customer request.
Packaging	In 25 kg bags of transparent polyethylene and finally bags are packed on wooden pallets. The weight of the pallets is approximately 1250 kg. The package can be changed according to customer request.

Technical Data sheet

Product Code: GHLEL-B

Application: TPE Hose

Color: Milky (Colorless/Natural)

Form: Granule

Packaging: 25 KG PE Bag / Palletized

Storage: Dry place, away from sun shine and temperature lower than 30°C

Properties	Test Method	Units	Typical Value
Tensile strength	ASTM-D638	N/mm ²	16±0.5
Elongation at break	ASTM-D638	%	250±10
Gravity	ASTM-D1895	G/CM ³	1.37±0.03
Hardness	ASTM-D2240	Shore A	73±2
Thermal stability at 200°C	ASTM-D749	MIN	50
Operating Temperature	---	°C	70
Properties after aging 7 days at 100°C			
Tensile strength	ASTM-D638	N/mm ²	15±0.5
Elongation at break	ASTM-D638	%	230±10

Processing Conditions:

The following temperature profile is recommended as a guide line.

Barrel Temperature: (±10 °C)			
Zone 1	Zone 2	Zone 3	Zone 4
150	160	165	170

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TRANSPARENT HOSE



Transparent or carbonate-free granules are usually the best choice for hose production because they are lighter. PlasticKar Company offers transparent hose granules in two types of transparent and crystal. Transparent granules have a higher transparency and gloss than crystal granules. In the following tables, you can see the properties of some of these granules

Product Code	Description	Hardness Shore A	Density G/CM ³
GHI00T	Transparent Granule 100	54	1.17
GHI02T	Transparent Granule 102	60	1.17
GHI04T	Transparent Granule 104	63	1.18
GHI06T	Transparent Granule 106	66	1.18
GHI08T	Transparent Granule 108	68	1.19
GHI10T	Transparent Granule 110	70	1.18
GHI15T	Transparent Granule 115	74	1.20
GHI29T	Transparent Granule 129	80	1.29

Product Code	Description	Hardness Shore A	Density G/CM ³
GHI00CR	Crystal Granule 100	54	1.17
GHI02CR	Crystal Granule 102	60	1.17
GHI04CR	Crystal Granule 104	63	1.18
GHI06CR	Crystal Granule 106	66	1.18
GHI08CR	Crystal Granule 108	68	1.19
GHI10CR	Crystal Granule 110	70	1.18
GHI15CR	Crystal Granule 115	74	1.20
GHI29CR	Crystal Granule 129	80	1.29

CARBONATE GRANULES

Opaque granules, which usually contain a percentage of calcium carbonate to reduce the cost and also increase its strength, are widely used in the production of hoses, especially the inner and middle layers.



Product Code	Description	Hardness Shore A	Density G/CM ³
GHI00C	Carbonate Granule 100	54	1.23
GHI02C	Carbonate Granule 102	61	1.24
GHI04C	Carbonate Granule 104	61	1.24
GHI06C	Carbonate Granule 106	68	1.23
GHI08C	Carbonate Granule 108	70	1.24
GHI10C	Carbonate Granule 110	70	1.27
GHI15C	Carbonate Granule 115	76	1.29
GHI29C	Carbonate Granule 129	81	1.40

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