



# OTHER PVC GRANULES

PLASTICKAR, OCTOBER 2021

## OTHER PVC GRANULES

PlasticKar Company produces and supplies various kinds of soft and rigid PVC granules for use in wire and cable, electricity, construction, shoes and hoses industries.

Some grades of PVC granules produced in the category of other granules are as follows. It is hoped that with the advancement of PVC consumption in other industries and the development of new products by our R&D team, we will introduce new categories of PVC granules to the market:

- Automotive Cable
- Traffic Cone
- Washer
- Recycled Granules
- PVC Flakes



## AUTOMOTIVE CABLE

Thermal resistance at high and low temperatures is an important feature of automotive cables. In addition, automotive cables must have higher chemical and mechanical resistance than conventional cables.

PlasticKar Company provides the needs of many companies in this industry by producing and improving the quality of different grades of granules for the production of car cables.



|              |  |
|--------------|--|
| Product Name | Automotive Cable   |
| Other Names  | Automotive wire Granule  |
| Product Code | <b>GEAUC-B (Black)</b>   |
| Application  | Automotive cable & wire production   |
| Features     | <ul style="list-style-type: none"> <li>Production based on Global Standards</li> <li>Production based on customer requested mechanical properties</li> </ul>   |
| Color        | Black<br>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:** GEAUC-B

**Application:** Wire & Cable – Automotive Cable

**Color:** Black

**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 |
|--|-------------|-------------------|---------------|
| Type                                   | BS 6746     | -                 | TI1           |
| Tensile strength                       | ASTM-D638   | N/mm <sup>2</sup> | 17.3±0.5      |
| Elongation at break                    | ASTM-D638   | %                 | 260±10        |
| Gravity                                | ASTM-D1895  | G/CM <sup>3</sup> | 1.44±0.03     |
| Hardness                               | ASTM-D2240  | Shore A           | 82±2          |
| Thermal stability at 200°C             | ASTM-D749   | MIN               | 90            |
| Operating Temperature                  | ---         | °C                | 100           |
| Properties after aging 7 days at 100°C |             |                   |               |
| Tensile strength                       | ASTM-D638   | N/mm <sup>2</sup> | 16±0.5        |
| Elongation at break                    | ASTM-D638   | %                 | 240±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 |
| 165                          | 170    | 175    | 180    |

*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.*



## TRAFFIC CONE

Safety cones or traffic cones are used to indicate the no-go zone on roads and highways. Resistance to the sun's ultraviolet rays and moisture, impact resistance and good flexibility are the main features of these cones.



|              |  |
|--------------|--|
| Product Name | Traffic Cone   |
| Other Names  | Safety Cone Granule  |
| Product Code | <b>GOTC-N (Milky)</b>  |
| Application  | Traffic Cone production  |
| Features     | <ul style="list-style-type: none"> <li>Production based on Global Standards</li> <li>Production based on customer requested mechanical properties</li> </ul>   |
| Color        | Milky<br>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:** GOTC-N

**Application:** Traffic Cone

**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 <sup>2</sup> | 11±0.5        |
| Elongation at break                    | ASTM-D638   | %                 | 207±10        |
| Gravity                                | ASTM-D1895  | G/CM <sup>3</sup> | 1.56±0.03     |
| Hardness                               | ASTM-D2240  | Shore A           | 79±2          |
| Thermal stability at 200°C             | ASTM-D749   | MIN               | 80            |
| Operating Temperature                  | ---         | °C                | 80            |
| Properties after aging 7 days at 100°C |             |                   |               |
| Tensile strength                       | ASTM-D638   | N/mm <sup>2</sup> | 10±0.5        |
| Elongation at break                    | ASTM-D638   | %                 | 190±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 |
| 155                          | 160    | 170    | 175    |

*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.*

## PVC WASHER

Washer is a mechanical part that is used to fill the space between two parts in order to prevent leakage.

PVC granules that are used as a raw material for the production of these injection parts must have high elasticity.

We have the ability to produce TPE granules to produce washers with higher elasticity.



|              |  |
|--------------|--|
| Product Name | PVC /TPE Washer  |
| Other Names  | Washer Granule   |
| Product Code | <b>GOW-B (Black)</b>   |
| Application  | Washer production  |
| Features     | <ul style="list-style-type: none"><li>▪ Production based on Global Standards</li><li>▪ Production based on customer requested mechanical properties</li></ul>  |
| Color        | Black<br>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:** GOW-B

**Application:** Washer

**Color:** Black

**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 <sup>2</sup> | 12.5±0.5      |
| Elongation at break                    | ASTM-D638   | %                 | 360±10        |
| Gravity                                | ASTM-D1895  | G/CM <sup>3</sup> | 1.32±0.03     |
| Hardness                               | ASTM-D2240  | Shore A           | 69±2          |
| Thermal stability at 200°C             | ASTM-D749   | MIN               | 85            |
| Operating Temperature                  | ---         | °C                | 90            |
| Properties after aging 7 days at 100°C |             |                   |               |
| Tensile strength                       | ASTM-D638   | N/mm <sup>2</sup> | 11±0.5        |
| Elongation at break                    | ASTM-D638   | %                 | 330±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 |
| 160                          | 165    | 170    | 180    |

*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.*



## RECYCLED PVC GRANULES



PVC is a thermoplastic polymer that can be melted and reshaped.

PlasticKar Company has a high production capacity of PVC hoses and PVC compounds and granules. In order to complete the production cycle, we have set up recycling lines to return waste of production to the industrial cycle.

Recycled PVC granules, which are produced from our production waste of hoses and PVC granules, have a relatively good quality and are used as raw materials for the production of hose inner layers and some injection parts.

|              |  |
|--------------|--|
| Product Name | Recycled PVC Granule   |
| Product Code | <b>GOREC-B (Black)</b>   |
| Application  | production of hose inner layers / injection parts  |
| Features     | <ul style="list-style-type: none"> <li>Production based on Global Standards</li> <li>Production based on customer requested mechanical properties</li> </ul>   |
| Color        | Black<br>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. |

## PVC FLAKES



PVC flakes are produced from the waste of PVC cables, hoses, etc., and that product is usually used to produce shoe soles and hoses.

The quality of this product is usually lower than recycled granules and its appearance is flaky, but due to its low price, it is used in industries such as shoe making and hose making.

|              |  |
|--------------|--|
| Product Name | PVC Flake  |
| Product Code | <b>GOFL-B (Black)</b>  |
| Application  | Production of hose inner layers and shoe soles   |
| Features     | <ul style="list-style-type: none"> <li>Production based on Global Standards</li> <li>Production based on customer requested mechanical properties</li> </ul>   |
| Color        | Black<br>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. |



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