



**TECHNICAL DATA SHEET**

PRODUCT NAME

**PE WAX**

PRODUCT

**POLYETHYLENE WAX**

PRODUCT GRADE

**GCC 310**

**PRODUCT DESCRIPTION**

**GCC 310** is a refined polyethylene homopolymer wax produced under trademark “ **GCC** ” which is derived from the unique HDPE process by Goyel Chemical Corporation. Its high is guaranteed to be used for various applications.

**TYPICAL APPLICATION**

- Processing auxiliary for PVC pipes.
- Hot melt adhesive
- PVC compound
- Color masterbatch
- Thermoplastic road marking
- Plastic additive
- Petroleum wax blend
- Cable filling compound
- Paper coating
- Candle

**PRODUCT CHARACTERISTICS**

- High melting and softening point
- Excellent lubrication
- Low viscosity
- Excellent heat resistance and thermal stability.
- High hardness level
- Excellent chemical resistance
- Excellent compatibility with other waxes

**PHYSICAL PROPERTIES**

Property	Test Method	Value	Unit
Drop Melting Point	ASTM D3954	110+/-5	oC
Viscosity @ 149 oC	ASTM D3236	250-300	cPs
Density	ASTM D1505	0.94	g/cm <sup>3</sup>
Penetration Hardness	ASTM D1321	4-5	d.mm
Color		White Flakes	

**Note:** The given values are typical value measured on the product and Values as herein are not to be constructed as a product specification.

**PROCESSING GUIDELINES**

The recommended melt temperature of GCC 310 is 120-130 oC. It is recommended to use mixing machine giving good homogenization. The recommend dosage depends on the intended applications given below :

**Applications**

**Recommendaton**

Hot melt adhesive	20 - 30% is recommended to reduce viscosity and adjust setting time of polyolefins, EVA base.
PVC compound	0.5 - 1.5 phr is recommended to be external lubricant for rigid PVC.
Color masterbatch	5 - 30% is recommended to improve pigment dispersion in polyolefins bases.
Thermoplastic road marking	1 - 3% is recommended to reduce viscosity for hydrocarbon resin base.
Plastic additive	5 - 8% is recommended to improve filler dispersion in polyolefins bases.
Petroleum wax blend	3 - 5% is recommended to add into a paraffin wax to increase softening point and hardness.
Rubber	2 - 10% is recommended to improve processability and additives dispersion.
Cable filling compound	5 - 10 phr is recommended to improve moisture barrier property.
Candle	1 - 5% is recommended to improve gloss, hardness and prolong candle life.

**Product Technical Assistance**

For technical assistance or further information on this product, Kindly contact us at below mentioned contact details.

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### PRODUCT AVAILABLE FORM

White Flakes

### PRODUCT PACKAGING

□ 25 kgHDPE bag

### STORAGE

- Product(s) should be stored in dry and dust free location at temperature below 50oC and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.
- The storage area should be stable and not be slopped.

### SAFETY

- The product is not classified as hazardous material.
- Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your GCC technical service.

### RECYCLING

- The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.
- Please see our Material Safety Datasheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your GCC technical service.

### DISCLAIMER

- The product can be used only for the application as specified here above.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.
- We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.
- No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.