

TGP VCI FILM : V04

Technical Data Sheet

The following compostable film grade is made with 100% compostable content. It is free of nitrites, secondary amines, and heavy metals.

Material Specifications:

Physical Properties	Test Method	Unit	Typical Value
Specific Gravity(23°C)	ASTM D 792-20	g/cc	1.24
Color	Visual / dE	-	Transparent, Green(Customizable)
Heat Seal Temperature	160-180	°C	

Mechanical Properties

Tensile strength at break (MD)	ASTM D882	MPa	25-30
Elongation at Break (MD)	ASTM D882	%	250-300
Modulus (MD)	ASTM D882	MPa	35-40

Corrosion Protection Properties

Corrosion Test	German VIA 8135-002 APL 010(Short Term)	Grade 2
Protection Period	German VIA 8135-002 APL 010(Short Term)	Up to 4 months with recommended packaging conditions
Salt Spray Test	ASTM B117	Up to 4 months with recommended packaging conditions
Razor Blade Test	ICE-OES (EN-71 Part 3)	Complies

***Dosage can be customised according to the required grade performance and desired shelf life**

RoHS	ICP-OES (EN-71 Part 3)	Complies
------	------------------------	----------

The information provided in this document is true to the best of our knowledge. Changes in Processing parameters can change the values. Users are advised to consider current patents, national or international, before processing. Only licensed manufacturers are allowed to use the polymer. Unauthorized distribution of granules or products shall be considered a punishable offense. TGP Bioplastics does not take any responsibility for any legal action on such persons or companies.

TGP VCI FILM : V04

Notes:

*Typical values are not to be taken as specifications.

*Typical values such as film properties are with 70-75 μ film made with 1 mm die gap & 2.0 BUR.

* Heat seal temperature vary according to thickness and machine. So if any query is there please consult with us

Sealing Specification:

- On impulse heat sealers keep the temperature indicator at 2.5 approx.
- Also keep the process continuing without lifting the sealer handle unless and until if it crosses 3 Seconds after beep.

Applications:

Film protects ferrous metals -mild steel(MS) components from corrosion, It is also used in machine packaging, wrapping metal bodies, engines, turbines, heavy equipment.

Regulatory Compliance:

Meet the requirements prescribed in ISO 17088

The grade and the additives incorporated in it also comply with the FDA standards

Quality System Compliance:

Representative products undergo inspection and quality control throughout the entire production process, adhering to applicable product standards and internal QC SOP.

Storage Condition:

Material should be kept strictly away from direct sunlight, moisture for better shelf life properties, before starting the actual usage. Store in a dry covered aluminium foil based packaging. Keep the bag closed, as humidity above 60% can cause the VCI chemicals to release early. Avoid contact with sharp objects to prevent punctures