



**VIRGO**  
POLYMER  
(INDIA) LTD

# Think **BIG!** Think **VIRGO**

SPECIALIST IN  
BIG BAG SOLUTIONS



## ENHANCING BLACK CARBON HANDLING

Optimized Big Bags for  
Secure Storage & Seamless Transport



# THE POWER OF VIRGO BIG BAGS — IN THE — BLACK CARBON INDUSTRY

Black carbon, an integral ingredient in numerous industries, particularly in tyre manufacturing and ink production, requires specialized handling and packaging to preserve its quality and efficacy. As an indicator of industrial activity, its production trends offer valuable insight into the economic health of various sectors. This is where Virgo Big Bags excel, delivering custom-made solutions made explicitly for the unique demands of the Black Carbon industry.

Built to bear heavy loads, Virgo Big Bags' sturdy construction and dust-proof design protect the black carbon, minimizing loss during transit and maximizing product integrity. Their generous capacity boosts operational efficiency by eliminating the need for multiple smaller bags, thereby reducing labour costs.

Virgo Big Bags are designed with safety at their core. They promote easy handling, lowering the risk of workplace injuries. Their secure containment system further reduces spillage risks, fostering a safer, cleaner working environment.

In a world ever more aware of environmental impacts, Virgo Big Bags are proud contributors to sustainability. Designed for reusability and recyclability, they dramatically decrease waste output, assisting your company's alignment with green initiatives.

Navigating the complex dynamics of the Black Carbon industry, Virgo Big Bags offer an innovative, comprehensive solution that seamlessly integrates safety, efficiency, cost-effectiveness, and sustainability.



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ISO 9001 : 2015**



Virgo Polymer, your trusted expert in Big Bag solutions, has carved a niche in the industry over nearly four decades. As a distinguished member of the International Flexible Intermediate Bulk Container Association (IFBCA), we have continually maintained our commitment to quality and innovation since our establishment in 1985. Our quality standards are endorsed by our ISO 9001:2015 certification, reinforcing our position as a leading manufacturer, setting unmatched standards for quality and reliability.

We pride ourselves on understanding the unique requirements of the Soda Ash industry, delivering robust, durable Big Bags meticulously designed to withstand its rigorous demands. Our commitment to exceeding expectations never wavers, as we offer bags that go beyond the highest standards of strength, durability, and performance. By incorporating cutting-edge manufacturing techniques and premium-grade materials, our bags offer unparalleled protection for your valuable products.

Based in Chennai, Tamil Nadu, Virgo Polymer has evolved into a global supplier of FIBC bags, demonstrating a profound understanding of your Big Bag needs. By combining our vast experience with globally-recognized certifications, we're emerging as a benchmark in the industry. Your choice to partner with Virgo Polymer assures a blend of quality, innovation, and unparalleled service.

**WHY  
CHOOSE  
VIRGO?**



**EFFICIENT TEAM**



**SPECIALIST IN MANUFACTURING**

**TYPE A NON-FOOD GRADE FIBC**



**EXCELLENT SERVICE**



**PRODUCTION CAPACITY**

**500 TONS PER MONTH**



**QUALITY PRODUCTS**

..... CATERS TO .....

**DOMESTIC MARKET  
PAN-INDIA**

**INTERNATIONAL MARKET  
10 COUNTRIES ACROSS  
4 CONTINENTS**

**LOCATED IN A PORT CITY, WE TAKE ADVANTAGE  
OF FAST SHIPMENTS & COST-EFFECTIVENESS IN  
DELIVERING OUR PRODUCTS**



# THE PILLARS OF PRODUCTION

## Our State-of-the-Art Manufacturing Infrastructure



EXTRUSION UNIT



WEAVING CIRCULAR LOOM



FABRIC ROLL READY FOR BAG MAKING



PRINTING MACHINES



STITCHING & SEWING UNIT



STITCHING UNIT



BELT CUTTING MACHINE



BAG CLEANING IN PROGRESS



BALING PRESS MACHINES



GOODS READY FOR DISPATCH

# QUALITY ASSURANCE IN EVERY BAG

## Our Dedication to Stringent Quality Assurance Processes



Tensile Testing Machine



Weathering Testing Machine



Load Testing machine

## COMMITMENT TO SUSTAINABILITY RESPONSIBLE MANUFACTURING PRACTICES

### Efficient Storage & Transportation

We prioritize eco-friendly processes and materials, minimizing our carbon footprint and promoting a greener future. Our infrastructure incorporates energy-efficient technologies, waste reduction measures, and recycling initiatives to ensure responsible manufacturing.

With Virgo, you can trust that your products are being produced with a focus on sustainability and environmental responsibility.



# STRENGTH MEETS FUNCTIONALITY

## Exceptional Quality, Customized Solutions for Your Black Carbon Needs

Our Big Bags, meticulously engineered for the Black Carbon industry, embody a blend of robust design, advanced materials, and innovative construction techniques. Crafted from 100% Virgin PP or with a 30% RP variant for the UK market, these woven bags are optimized to securely store and transport black carbon powder. Key features of our bags include a single layer with an additional loose or laminated layer, an optional PE liner or barrier liner, and a thickness of woven polypropylene that significantly amplifies the bag's weight-bearing capacity. Available in both coated and uncoated varieties, we tailor these bags to meet your specific requirements.

Subjected to rigorous testing at multiple stages of production, our Big Bags satisfy stringent industrial standards, offering a cost-effective solution without compromising on strength, weather resistance, and durability.

Experience Superior Storage and Transportation Capabilities with our Expertly Engineered Big Bags.

### WHY CHOOSE VIRGO BLACK CARBON BIG BAGS

Custom-Engineered Design

Robust Material

High Load Capacity

Weight-Bearing

Adaptability

Protective Features

Tested Quality

Cost-effective

### IN-DEPTH SPECIFICATIONS

INFORMATION	DESCRIPTION	INFORMATION	DESCRIPTION
Production Name	FIBC Bags / Jumbo Bags / Big Bags / T on Big Bags / Big PP Woven Bags	Material	100% Virgin PP OR with a 30% RP Variant for UK market
Bag Type	Type A FIBC	SWL / Capacity	Customized based on Black Carbon specific gravity
Bag Construction	4-panel / U-panel / Circular / Tubular / Rectangular Shape	Fabric Weight	Customized to safely carry Black Carbon loads
Fabric Colour	Black, Grey, OR as Customized	Lifting Loops	2 OR 4 Belts / Cross Corner Loop / Double Stevedore Loop / Side-seam Loop
Ropes	1 OR 2 around the Bag Body , OR as Customized	Bag Regular Size	Customized based on Black Carbon volume and weight
Top	Full Open / Filling Spout / Skirt Cover	Bottom	Flat Bottom / Discharge Spout / Full Open
Inside Liner	Customized to prevent Black Carbon from moisture absorption and contamination	Sewing	Plain / Chain / Chain lock with optional soft-proof
Printing	Available ( 5 Colour )	Document Pocket	Yes / No
Characteristic Features	Anti-static, UV Stabilization, Dust-Proof, Moisture-Proof, designed for Black Carbon's unique handling	Safe Factor	3:1/5:1/6:1 OR customized
Packing Detail	10Pcs Bundle (bale), 20Pcs Bundle (bale) OR On Pallet as Customized	Features	needs

# FIBC BAG CONSTRUCTION

## LIFTING LOOP OPTIONS



4 LOOP IN THE CORNER



CROSS CORNER LOOPS



1 AND 2 LOOPS



TUNNEL LOOPS



STEVEDORE LOOPS



LOOPS ON THE BOTTOM (OPTIONAL)

## TOP INLET OPTIONS

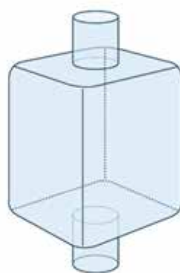


## BOTTOM OUTLET OPTIONS

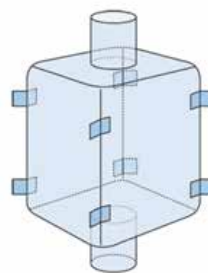


**Big Bags With Liners  
Perfectly Protect the Goods**

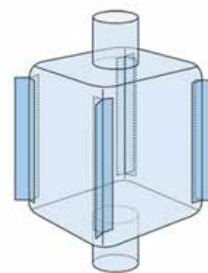
## ATTACHING THE INLINER TO THE BIG BAGS



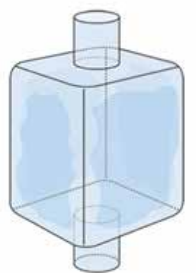
NO ATTACHING



ATTACHING WITH TABS



ATTACHING WITH FLANGERS



ATTACHING WITH GLUE

