

PRIMARY PACKAGING SPECIFICATION**1. COMMERCIAL NAME:**

Plain white bags 100 lb
Polypropylene Woven

2. REFERENCE PHOTO:

Plain bags

3. USE:

Dry edible beans packaging

**4. QUALITY CRITERIA:**

The direct food contact packaging materials (Polywoven Bags) are hereby guaranteed as of the date of shipment to be produced from non-GMO, without materials or processes intentionally using nanotechnology, produced without the use of animal products, synthetic fungicides, preservatives, bisphenol-a, fumigants and/or pesticides and here by guaranteed to be suitable for being in prolonged contact with dry and powdered food grade products for human consumption. The packaging does not intentionally contain any substances with restrictions or additives with restrictions.

We sources these direct food contact packaging materials from factories with recognized food safety conformity (One of or a combination of BRC, FSSC 22000, ISO 22000, etc.)

Polypropylene offers a good balance of chemical, thermal and electrical properties with moderate strength. It has a good strength to weight ratio and due to its hard, high gloss surface, polypropylene is ideally suited to environments where there is concern for bacteria build up that can interfere with flow. Polypropylene can be heat formed, shaped and welded to fabricate ducts, hoods and much more. Polypropylene has excellent corrosion resistance to a wide range of items. Polypropylene is not UV stabilized but is USDA approved and meets FDA standards.

TYPICAL PROPERTIES of POLYPROPYLENE				
ASTM or UL test	Property	Homopolymer	Co-Polymer	Flame Retardant
PHYSICAL				
D792	Density (lb/in ³) (g/cm ³)	0.033 0.905	0.033 0.897	0.035 0.988
D570	Water Absorption, 24 hrs (%)	<0.01	0.01	0.02
MECHANICAL				
D638	Tensile Strength (psi)	4,800	4,800	4,300
D638	Tensile Modulus (psi)	195,000	-	-
D638	Tensile Elongation at Yield (%)	12	23	28
D790	Flexural Strength (psi)	7,000	5,400	-
D790	Flexural Modulus (psi)	180,000	160,000	145,000
D695	Compressive Strength (psi)	7,000	6,000	-
D695	Compressive Modulus (psi)	-	-	-
D785	Hardness, Rockwell R	92	80	-
D256	IZOD Notched Impact (ft-lb/in)	1.9	7.5	0.65
THERMAL				
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	6.2	6.6	-
D648	Heat Deflection Temp (°F / °C) at 66 psi at 264 psi	210 / 99 125 / 52	173 / 78 110 / 43	106 / 41 57 / 14
D3418	Melting Temperature (°F / °C)	327 / 164	327 / 164	327 / 164
-	Max Operating Temp (°F / °C)	180 / 82	170 / 77	180 / 82
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	0.76-0.81 2.6-2.8	- -	- -
UL94	Flammability Rating	HB	n.r.	V-O
ELECTRICAL				
D149	Dielectric Strength (V/mil) short time, 1/8" thick	500-660	475	500-650
D150	Dielectric Constant at 1 kHz	2.25	2.2-2.36	2.3
D150	Dissipation Factor at 1 kHz	0.0005-0.0018	0.0017	-
D257	Volume Resistivity (ohm-cm) at 50% RH	8.5 x 10 ¹⁴	2 x 10 ¹⁶	10 ¹⁵
D495	Arc Resistance (sec)	160	100	-

SECONDARY PACKAGING (PALLETIZING AND STACKING) SPECIFICATION

5. PACKING AND CONTENT

Bag weight	Total per Pallet (Bags)	Total per Pallet (Lbs)	Total per Truck (Bags)	Total per Truck (Pallets)	Total per Truck (Lbs)
100.0 LB	20	2000	440	22	44000

Bag weight	Total per Boxcar (Bags)	Total per Boxcar (Lbs)
100.0 LB	2000	200000

STORAGE SPECIFICATION**6. STORAGE AND TRANSPORT CONDITIONS**

Store at room temperature.

Keep away from solvents.

Keep away from oxidizing agents

7. SHELF LIFE

No shelf-life limitations

8. REFERENCES:

Laminated Plastics, Technical Data Sheet PP, link: <https://laminatedplastics.com/polypropylene.pdf>

REVISION CONTROL			
Publication date	Revision	Modifications Regarding the Previous Review	Next review