PRIMARY PACKAGING SPECIFICATION

1. **COMMERCIAL NAME**:
   Translucent bag 4 lb
   Low Density Polyethylene Coext

2. **REFERENCE PHOTO:**
   Northwood Farm

3. **USE:**

   Dry edible beans packaging

4. **QUALITY CRITERIA:**
   This extruded material offers good corrosion resistance and low moisture permeability. A highly flexible product, LDPE is frequently used in consumer packaging, bags, bottles, and liners.

TYPICAL PROPERTIES of POLYETHYLENE

ASTM or UL test	Property	LDPE	HDPE	UHMW
	PHYSICAL			
D792	Density (lb/in³) (g/cm³)	0.033 0.92	0.035 0.96	0.034 0.93
D570	Water Absorption, 24 hrs (%)	<0.01	<0.01	<0.01
	MECHANICAL			
D638	Tensile Strength (psi) at 72°F	1,400	4,600	5,800
D638	Tensile Strength (psi) at 150°F	400	400	400
D638	Tensile Modulus (psi)	57,000	200,000	80,000
D638	Tensile Elongation at Break (%)	100	400	300
D790	Flexural Strength at Yield (psi)	1,500	4,600	3,500
D790	Flexural Modulus (psi)	29,000	174,000	88,000
D695	Compressive Strength (psi)	1,400	4,600	3,000
D695	Compressive Modulus (psi)	54,000	100,000	80,000
D732	Shear Strength (psi)	-	-	3,000
D785	Hardness, Shore D	D45	D69	D62-D66
D256	IZOD Notched Impact (ft-lb/in)	No Break	1.3	No Break
	THERMAL			
D696	Coefficient of Linear Thermal Expansion (x 10^{-5} in./in./°F)	-	6	11
D648	Heat Deflection Temp (°F / °C) at 66 psi at 264 psi	 120 / 48 116 / 46	 170 / 76 176 / 80	 203 / 95 180 / 82
D3418	Approx. Melting Temperature (°F / °C)	244 / 118	260 / 125	275 / 136
-	Max Operating Temp (°F / °C)	160 / 71	180 / 82	180 / 82
C177	Thermal Conductivity (BTU-in/ft²-hr-°F) (x 10^{-4} cal/cm-sec-°C)	 - -	 - -	 2.84 10.0
UL94	Flammability Rating	HB	HB<	HB
	ELECTRICAL			
D149	Dielectric Strength (V/mil) short time, 1/8" thick	460-700	450-500	2300
D150	Dielectric Constant at 1 MHz	2.25- 2.30	2.30- 2.35	2.30- 2.35
D150	Dissipation Factor at 1 kHz	0.0002	0.0002	0.0005
D257	Surface Resistivity (ohm/square) at 50% RH	> 10^{15}	> 10^{15}	> 10^{15}
D495	Arc Resistance (sec)	135-160	200-250	250-350

Alcohol based inks, weight: 1.5 gr/mt2, low heavy metal content. Heavy metals, FDA authorization, encapsulated between 2 films for use in packaging in indirect contact with food.

Lamination adhesive: solventless base, weight: 1.5 gr/mt2 with 100% evaporation, encapsulated between 2 films, FDA authorization for use in packaging films in indirect contact with food.

LDPE Coext. type ABA, cal: 110 (27.5 mc), density: 0.92 gr/cm3
weight: 25.3 gr/mt2 sealable on both sides, suitable for packaging in direct contact with food (FDA authorization).

Lamination Structure: LDPE, cal: 220 (55mc), structure weight: 53.6 gr/mt2, yield: 18.7 mt2 / kg

SECONDARY PACKAGING (PALLETIZING AND STACKING) SPECIFICATION

5. PACKING AND CONTENT

Bag weight	Bags per bale #	Layer # (Bales)	High # (Bales)	Total per Pallet (Bales)	Total per Pallet (Bags)	Total per Pallet (Lbs)	Pallets per truck	Lbs per truck
4.0 LB	6	8	10	80	480	1920	22	44000

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 LDPE, link: https://laminatedplastics.com/ldpe.pdf
Sasol, Safety Data Sheet LDPE, link: https://sasoldcproducts.blob.core.windows.net

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