

PRIMARY PACKAGING SPECIFICATION

1. COMMERCIAL NAME:

Translucent bag 1 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/in ³) (g/cm ³) | 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/ft ² -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 |
|------------|-----------------|-----------------|----------------|--------------------------|-------------------------|------------------------|-------------------|---------------|
| 1.0 LB | 24 | 10 | 8 | 80 | 1920 | 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 |
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