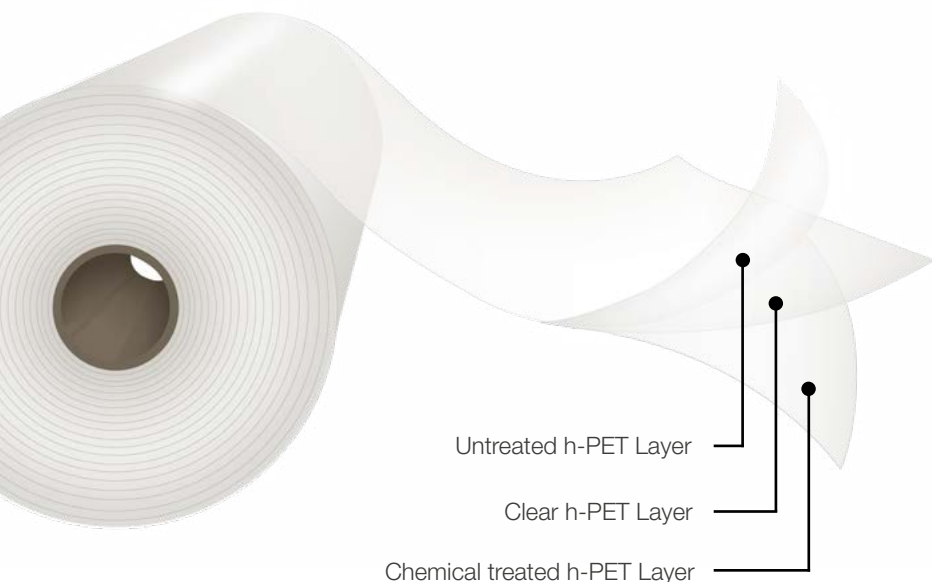


## BOPET Film

*Chemical treated inside*



## Descripción

**Opet PlainFilm NQ** is a transparent film, one side chemically treated with coPET and no treatment on the reverse side. The base raw material is PET homopolymer with enhanced clarity in all three layers. The chemical treated side is located on the inside face of the reel.

## Main Characteristics

- Very good transparency
- Outstanding machinability
- Excellent flatness and dimensional stability
- One side chemical treated
- Excellent bonds to metal, adhesives and a variety of inks

## Applications

This product is suitable to be used in a great variety of converting processes in the food packaging industry as well as in other industrial applications. The chemical treated side provides high adhesiveness to a variety of ink systems such as PVB polyvinyl based systems, adhesives and to the aluminum layer in metallization. It meets the FDA regulations for direct food contact. It is designed for high processability in packaging machinery as the outer web in laminations. The coPET treatment has limited temperature and moisture resistance then it is not recommended for hot filling and sterilization processes.

### \* Important Considerations

It is recommended to store this material at conditions not exceeding 86°F, at shadow and with a relative humidity of 60%.

It is important to keep overwrap to protect rolls from humidity while they are not used in order to avoid blocking of this material.

There might be a deterioration of certain physical properties by adverse storage conditions through time. It is therefore advisable to keep an adequate inventory turn-over of this material.

**Opet PlainFilm NQ**

**ET - NQ**



## Standard Dimensions\*

\*This product has lot size and width restrictions. Please consult your sales representative. Refer to ET-QN as outside chemical treated side variant.

| OpetFilm Code | Thickness (µm) | Unit Weight (g/m <sup>2</sup> ) | Width (mm)   | Core Size | 665 mm Ø Outside Diam. |                | 760 mm Ø Outside Diam. |                | Treatment             |
|---------------|----------------|---------------------------------|--------------|-----------|------------------------|----------------|------------------------|----------------|-----------------------|
|               |                |                                 |              |           | Length (m)             | Weight (kg/cm) | Length (m)             | Weight (kg/cm) |                       |
| ET 10 NQ      | 10.0           | 14.0                            | 400 to 2,000 | 6"        | 20,300                 | 2.89           | 38,700                 | 5.49           | Plain Out Chemical In |
| ET 11 NQ      | 11.0           | 15.4                            |              |           | 18,500                 |                | 35,200                 |                |                       |
| ET 12 NQ      | 12.0           | 16.8                            |              |           | 17,000                 |                | 32,200                 |                |                       |
| ET 19 NQ      | 19.0           | 26.6                            |              |           | 10,700                 |                | 20,400                 |                |                       |
| ET 23 NQ      | 23.0           | 32.2                            |              |           | 8,800                  |                | 16,800                 |                |                       |

## Typical Values of Physical Properties \*

\*Information and data presented in this data sheet are intended to be used as general guidelines. Technical specifications are available upon request.

| Property                             | Unit                                   | Testing Method    | Thickness in Microns |     |     |     |     |
|--------------------------------------|--|-------------------|----------------------|-----|-----|-----|-----|
|                                      |  |                   | 10                   | 11  | 12  | 19  | 23  |
| Haze                                 | %                                      | ASTM D1003        | 2.2                  | 2.3 | 2.5 | 3.5 | 4.0 |
| Gloss @ 45°                          | %                                      | ASTM D2457        | 130                  |     |     |     |     |
| Coefficient of Friction - Kinetic    | N/N                                    | ASTM D1894        | 0.27                 |     |     |     |     |
|                                      | Q/Q                                    |                   | 0.30                 |     |     |     |     |
| Tensile Strength                     | MD                                     | N/mm <sup>2</sup> | 210                  |     |     |     |     |
|                                      | TD                                     |                   | 220                  |     |     |     |     |
| Elongation at Break                  | MD                                     | ASTM D882         | 125                  |     |     |     |     |
|                                      | TD                                     |                   | 95                   |     |     |     |     |
| Secant Modulus @ 2%                  | MD                                     | N/mm <sup>2</sup> | 3,900                |     |     |     |     |
|                                      | TD                                     |                   | 4,200                |     |     |     |     |
| Surface Tension                      | Q                                      | OHG M004          | 64                   |     |     |     |     |
| Shrinkage @ 150 °C, 30 min           | MD                                     | ASTM D1204        | 1.2                  |     |     |     |     |
|                                      | TD                                     |                   | 1.0                  |     |     |     |     |
| Water Vapor T. R. @ 38 °C, 90% R. H. | g/(m <sup>2</sup> .day)                | ASTM F1249        | 40                   | 39  | 38  | 28  | 22  |
| Oxygen T. R. @ 23 °C, 0% R. H.       | cm <sup>3</sup> /(m <sup>2</sup> .day) | ASTM D3985        | 125                  | 110 | 100 | 80  | 70  |

Opet PlainFilm NQ

# ET - NQ

