

Homopolymer Polypropylene



PHF0301

EVALENE[®] PHF0301 is a Homopolymer Polypropylene grade for biaxially oriented film (BOPP) applications.

EVALENE[®] PHF0301 is intended for the skin, intermediate and core layers of BOPP. **EVALENE[®] PHF0301** consistently delivers excellent transparency and good mechanical properties. Its superb optical properties guarantee eye-catching clarity and gloss for product imagery and branding opportunities. BOPP made with **EVALENE[®] PHF0301** exhibits good barrier properties.

FEATURES

- Outstanding optical properties
- Smooth surface finish
- Excellent tensile strength and barrier properties
- Meets FDA Philippines food-contact requirements
- Halal certified

TYPICAL APPLICATIONS

- Food and snack packaging
- Adhesive tape
- Cigarette packaging

Product Properties

Property	Test Condition	Test Method	Typical Value	Unit
Melt Flow	230°C/2.16 kg	ASTM D1238	3	g/10 min
Tensile Strength at Break*	500 mm/min	ASTM D882	137 / 304	MPa
Elongation at Break*	500 mm/min	ASTM D882	177 / 60	%
Elastic Modulus*	1% Secant	ASTM D882	1353 / 2526	MPa
% Haze*		ASTM D1003	1.10	%
Gloss*	60° angle of incidence	ASTM D2457	97	%

*Properties tested on 5-layer 20μ plain BOPP with 5:1 MD / 11:1 TD draw ratio.
Tensile properties are in machine and transverse directions (MD / TD).

Typical Processing Conditions

Extrusion Temperatures 170 - 250°C
Chill Roll Temperature 25 - 30 °C

BOPP made of **EVALENE**[®] PHF0301 exhibits good haze and gloss that deliver excellent display value for the film.

Figure 1. Haze of 20 micron plain film made of **EVALENE**[®] PHF0301 vs. customer's maximum requirement

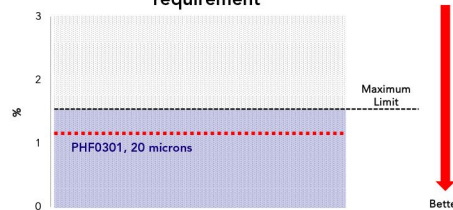
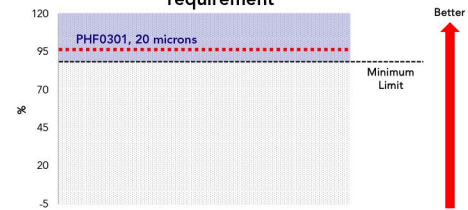


Figure 2. Gloss of 20 micron plain film made of **EVALENE**[®] PHF0301 vs. customer's minimum requirement



Tensile strength of BOPP made of **EVALENE**[®] PHF0301 easily meets and surpasses minimum limits per customer requirement. Integrity and strength of a multilayer structure will be enhanced by a BOPP made of **EVALENE**[®] PHF0301.

Figure 3. Tensile strength in machine direction of 20 micron plain film made of **EVALENE**[®] PHF0301 vs. customer's minimum requirement

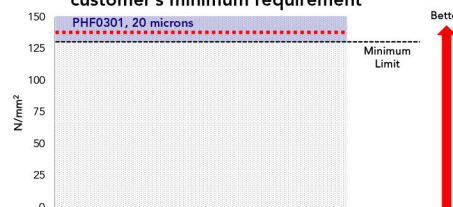
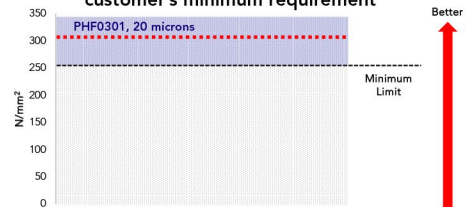


Figure 4. Tensile strength in transverse direction of 20 micron plain film made of **EVALENE**[®] PHF0301 vs. customer's minimum requirement



EVALENE[®] PHF0301's elastic modulus exceeds the customer's standard requirement. Multilayer structures that require outstanding stiffness will benefit from a BOPP made of **EVALENE**[®] PHF0301.

Figure 5. Elastic modulus in machine direction of 20 micron plain film made of **EVALENE**[®] PHF0301 vs. customer's minimum requirement

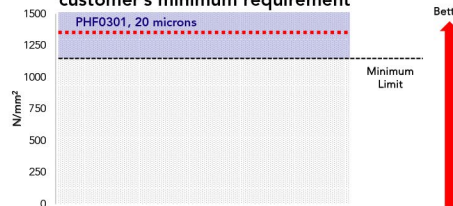
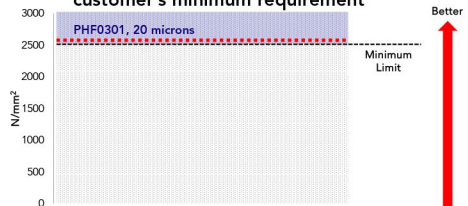


Figure 6. Elastic modulus in transverse direction of 20 micron plain film made of **EVALENE**[®] PHF0301 vs. customer's minimum requirement



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