

Homopolymer Polypropylene

PHF0701



EVALENE® PHF0701 is a Homopolymer Polypropylene grade with slip agent especially designed as core layer material for coextruded cast films.

EVALENE® PHF0701 is ideal as core layer material in coextruded cast films for non metallizable lamination applications. It is compatible with heat sealable skin layer in cast film coextrusion technology. **EVALENE® PHF0701** is formulated with slip agent to obtain acceptable Coefficient of Friction (CoF) for the end-product flexible packaging. It has outstanding clarity that delivers exceptional value for visuals and product appeal.

FEATURES

- Outstanding optics
- Good processability
- Excellent mechanical properties
- Meets FDA Philippines food-contact requirements*
- Halal certified*

TYPICAL APPLICATIONS

- Core layer for non-metallizable application
- Food and snack packaging
- Flexible packaging

Product Properties (Provisional)

Property	Test Condition	Test Method	Metric Value	Unit
PHYSICAL PROPERTY				
Melt Flow	230°C/2.16 kg	ASTM D1238	7	g/10 min
FILM PROPERTIES				
Tensile Strength at Yield (MD)*	500 mm/min	ASTM D882	16	MPa
Elongation at Yield (MD)*	500 mm/min	ASTM D882	8	%
Tensile Strength at Break (MD)*	500 mm/min	ASTM D882	4.6	MPa
Elongation at Break (MD)*	500 mm/min	ASTM D882	279	%
Tensile Modulus (MD)*	1% Secant, 25 mm/min	ASTM D882	551	MPa
Elmendorf Tear Strength (MD/TD)*		ASTM D1922	24 / 76	g
% Haze*		ASTM D1003	0.5	%
Gloss*	60° angle of incidence	ASTM D2457	146	%
PLAQUE PROPERTIES				
Tensile Strength at Yield**	50 mm/min	ASTM D638	33	MPa
Elongation at Yield**	50 mm/min	ASTM D638	19	%
Tensile Strength at Break**	50 mm/min	ASTM D638	30	MPa
Elongation at Break**	50 mm/min	ASTM D638	1256	%
Flexural Modulus**	1% Secant, 1.3 mm/min	ASTM D790A	1199	MPa

*Properties tested on 30µ films made using Killion extruder with 6" flat die, 14rpm screw speed at 190-220°C extrusion temperature.

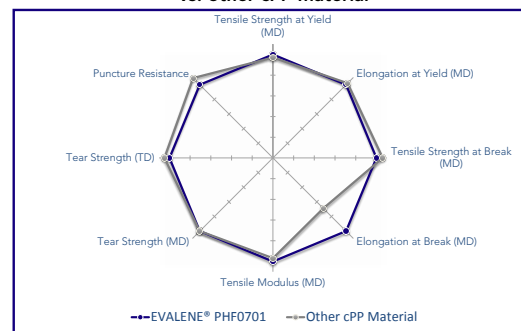
**Properties tested using ASTM Type I injection molded specimens.

MD = machine direction; TD = transverse direction

Typical Processing Conditions

Melt Temperature	215 - 250°C
Chill Roll	25 - 30°C

Figure 1. Mechanical property performance of EVALENE® PHF0701 vs. other cPP material



EVALENE® PHF0701 exhibits impressive mechanical properties in this side-by-side comparison with another cPP material. **EVALENE® PHF0701's** melt flow and additive package are especially designed for optimum processability and balanced mechanical properties that are at par with the other cPP material's. With **EVALENE® PHF0701** the converter can expect efficiency in operations and consistency in product performance.

EVALENE® PHF0701 has comparable haze and gloss with the other cPP material.

EVALENE® PHF0701's low haze and high gloss guarantee stunning visuals for the benefit of the converter and the end-user.

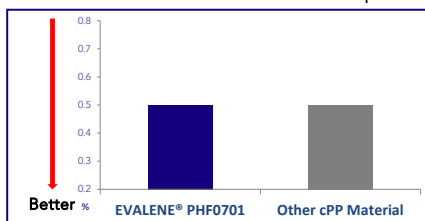


Figure 2. Comparison of haze between EVALENE® PHF0701 and other cPP material (30 micron film)

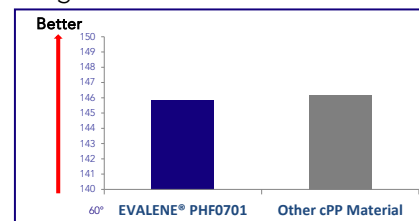


Figure 3. Comparison of gloss between EVALENE® PHF0701 and other cPP material (30 micron film)

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