

Homopolymer Polypropylene



PHY0401

EVALENE® PHY0401 is an outstanding PP yarn grade designed for fast machines with line speeds up to 500 m/min.

EVALENE® PHY0401 is an outstanding PP yarn grade for fast flat yarn applications. Its excellent processability results in higher line speeds than those achievable by the standard yarn grades. It is a compelling choice for sack manufacturers due to its high throughputs combined with an excellent balance between tenacity and elongation.

FEATURES

- High throughputs
- Good balance of tenacity and stretchability
- Meets Philippine FDA food-contact requirements
- Halal-certified

TYPICAL APPLICATIONS

- Flat yarn for woven applications such as sacks, tarpaulins and flexible packaging
- Twines and ropes

Product Properties

Property	Test Condition	Method	Typical Value	Unit
Nominal Melt Flow	230°C / 2.16kg	ASTM D1238	4.0	g/10 min.
Tensile Strength at Yield*	50 mm/min	ASTM D638	34	MPa
Tensile Strength at Break*	50 mm/min	ASTM D638	21	MPa
Elongation at Yield*	50 mm/min	ASTM D638	19	%
Elongation at Break*	50 mm/min	ASTM D638	595	%
Tensile Modulus *	1% Secant, 5 mm/min	ASTM D638	1946	MPa
Flexural Modulus	1% Secant, 1.3 mm/min	ASTM D790A	1259	MPa
Rockwell Hardness		ASTM D785	R99	
Notched Izod Impact Strength	23°C	ASTM D256	15**	J/m

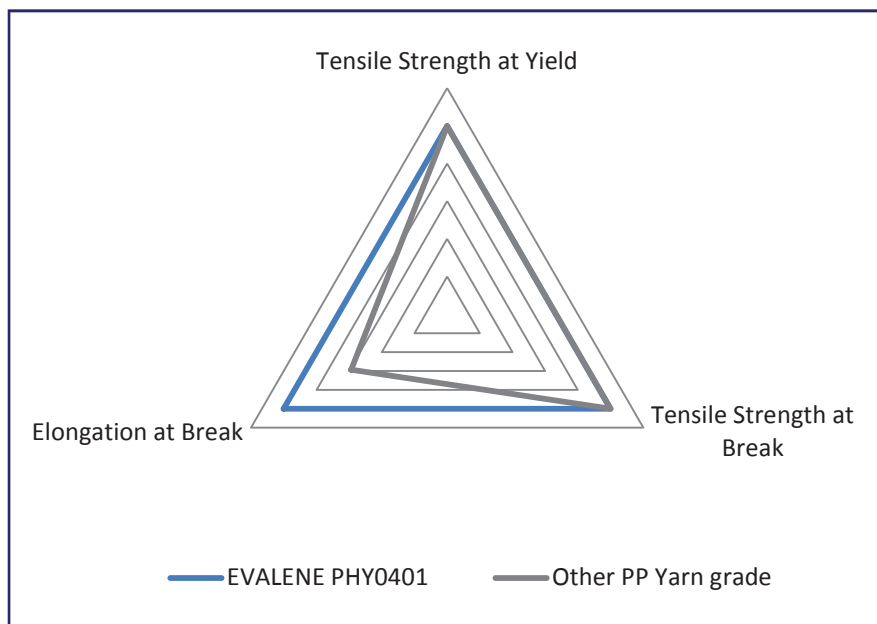
* Properties measured on Injection Molded ASTM Type I samples
** Hinge break

Typical Processing Conditions:

Extrusion temperature: 230 - 260 °C

Resin Property Comparison: EVALENE® PHY0401 and other PP yarn grade

EVALENE® PHY0401's higher melt flow allows converters to achieve higher line speeds and throughputs. At the same time, **EVALENE® PHY0401's** superior elongation at break compared to another 4.0MF yarn grade allows for higher draw ratios and results in stronger tapes.



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