

Homopolymer Polypropylene



PHY0351

EVALENE[®] PHY0351 is an outstanding PP yarn grade providing high tenacity and ease of processing.

EVALENE[®] PHY0351 is suitable for flat yarn applications requiring high tenacity and excellent stretchability as yarn production requires material to be stretched by as much as 700 %. **EVALENE[®] PHY0351**'s high tenacities impart strength to the sacks and provide them with the capability to carry the usual 50 kg load without bursting. Also, **EVALENE[®] PHY0351**'s creep resistance enables stable stacking that's several layers high. **EVALENE[®] PHY0351** lends protection to moisture-sensitive farm produce and farm raw materials for the longest possible shelf lives.

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	3.5	g/10 min.
Tensile Strength at Yield*	50 mm/min	ASTM D638	34	MPa
Tensile Strength at Break**	50 mm/min	ASTM D638	20	MPa
Elongation at Yield*	50 mm/min	ASTM D638	18	%
Elongation at Break*	50 mm/min	ASTM D638	502	%
Tensile Modulus *	1% Secant, 5 mm/min	ASTM D638	2013	MPa
Flexural Modulus	1% Secant, 1.3 mm/min	ASTM D790A	1349	MPa
Rockwell Hardness		ASTM D785	R95	
Notched Izod Impact Strength	23°C	ASTM D256	24	J/m

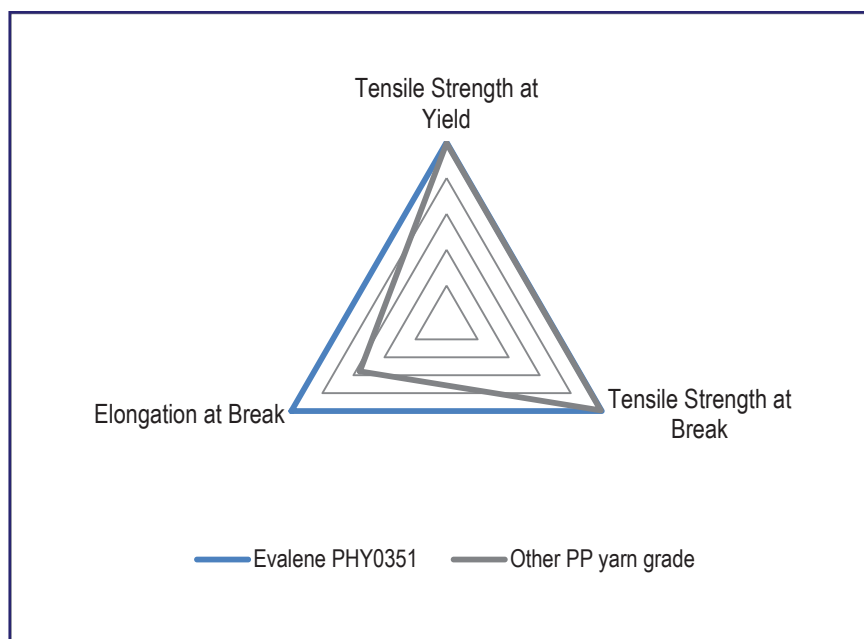
* Properties measured on Injection Molded ASTM Type I samples

Typical Processing Conditions:

Extrusion temperature: 230 - 260 °C

Resin Property Comparison: EVALENE® PHY0351 and other PP yarn grade

EVALENE® PHY0351 allows attainment of higher draw ratios during yarn production, due to its inherent high % elongation at break. This results in increased yarn tenacities.



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