

EVALENE® PP PHY0401

Polypropylene Homopolymer
JG Summit Petrochemical Corporation

Message:

EVALENE® PHY0401 is an outstanding PP yarn grade for fast fl at 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

General Information			
Features	Excellent Processability		
	Homopolymer		
	Good stretchability		
	Compliance of Food Exposure		
Uses	Packaging		
	Bags		
	Rope		
	Line		
Forms	Particle		
Processing Method	Filament extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant ¹	1950	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	34.0	MPa	ASTM D638
Fracture	21.0	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	19	%	ASTM D638
Fracture	600	%	ASTM D638
Flexural Modulus - 1% Secant ⁴	1260	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact ⁵ (23°C)	15	J/m	ASTM D256
Extrusion	Nominal Value	Unit	
Melt Temperature	230 - 260	°C	
NOTE			
1.	5.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		
5.	Hinge Break		

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