

# EVALENE® PP PHF0221

Polypropylene Homopolymer  
JG Summit Petrochemical Corporation

Message:

PP is used in making films, adhesive tapes, cigarette and candy wrappers, cosmetics, pharmaceutical and food packaging materials.  
High Clarity. Hot-Fill Applications. Living Hinge.  
Evalene® Random Copolymer PP is widely used in the following applications:  
Injection Molding: Houseware, lunch boxes and pencil cases with "living hinges"  
Blow Molding: Baby bottles, bottles for juice, tea, water, medicine, and cosmetics  
Good Economics. Hot-Fill Applications. Excellent Film Clarity. Good Tenacities.  
Evalene® Homopolymer PP is the material of choice for a host of applications:  
Tape Extrusion: Woven bags for rice, cement and industrial chemicals  
Films: Bi-axially oriented, cast and inflation films for tapes, packaging, and labels  
Injection Molding: Monobloc furnitures, pails, houseware, containers, toys, caps  
Thermoforming: Fastfood containers, mineral water cups

General Information			
Features	Homopolymer		
	Good stretchability		
	Definition, high		
Uses	Bi-axially Oriented Film		
	Packaging		
	Films		
	Strap		
	Bags		
	Food packaging		
Agency Ratings	FDA not rated		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	97		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant <sup>1</sup> (Injection Molded)	1400	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield, Injection Molded)	35.0	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Yield, Injection Molded)	22	%	ASTM D638
Flexural Modulus - 1% Secant <sup>4</sup> (Injection Molded)	1270	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	89.0	°C	ASTM D648
Peak Melting Temperature <sup>5</sup>	163	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Melt Temperature	230 - 240	°C	
Extrusion instructions			
Chill Roll Temperature: 20 to 25°C			
NOTE			
1.	5.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		
5.	10°C/min, 2nd heating		

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#### Recommended distributors for this material

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