

EVALENE® PP PHY0171

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		
Uses	Bags		
	Strapping		
	Textile Applications		
	Yarn		
Agency Ratings	FDA Unspecified Rating		
Forms	Pellets		
Processing Method	Filament Extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.7	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	101		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant ¹ (Injection Molded)	1550	MPa	ASTM D638
Tensile Strength ² (Yield, Injection Molded)	37.0	MPa	ASTM D638
Tensile Elongation ³ (Yield, Injection Molded)	18	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (Injection Molded)	1450	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)	99.0	°C	ASTM D648

Peak Melting Temperature ⁵	162	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Melt Temperature	210 to 230	°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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