EVALENE® PP PHF1002

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 Definition, high Good demoulding performance		
Uses	Packaging Films 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)	10	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	98		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 1% Secant [1] (Injection Molded)	1320	MPa	ASTM D638
Tensile Strength [2] (Yield, Injection Molded)	35.0	MPa	ASTM D638
Tensile Elongation [3] (Yield, Injection Molded)	20	%	ASTM D638
Flexural Modulus - 1% Secant [4] (Injection Molded)	1120	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, Injection Molded)	20	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	100	°C	ASTM D648
Peak Melting Temperature [5]	163	°C	ASTM D3418

Extrusion	Nominal Value	Unit
Melt Temperature	195 - 210	°C

Extrusion instructions
Chill Roll Temperature: 25 to 30°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

Recommended distributors for this material

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