EVALENE® PP PHJ1202

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	Fast Molding Cycle High Gloss Homopolymer		
Uses	Closures Containers Household Goods Toys		
Agency Ratings	FDA Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	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)	1300	MPa	ASTM D638
Tensile Strength [2] (Yield, Injection Molded)	33.0	MPa	ASTM D638
Tensile Elongation [3] (Yield, Injection Molded)	22	%	ASTM D638
Flexural Modulus - 1% Secant [4] (Injection Molded)	1100	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact (23°C, Injection Molded)	27	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	90.0	°C	ASTM D648
Peak Melting Temperature [5]	163	°C	ASTM D3418
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	200 to 220	°C	
Mold Temperature	20.0 to 40.0	°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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