Jampilen EP348U

Polypropylene Copolymer

Jam Polypropylene Company

Message:

Jampilen EP348U is a nucleated, antistatic formulated, very high melt flow rate heterophasic polypropylene copolymer. The product features excellent impact resistance, even at low temperatures. Jampilen EP348U is specifically designed for high speed thin-walled injection molding. The very high fluidity, the molecular design and specific formulation of Jampilen EP348U result in very easy processing, short cycle times, low shrinkage and minimal warpage. This allows a great design freedom and imports good dimensional stability of the molded items. Items made with this grade feature excellent mechanical properties over a wide temperature range and very good low temperature performance. The ductile brittle transition temperature is well below -40°C. To obtain the best results in Injection Molding, Jampilen EP348U processing temperature should not exceed 240-250°C.

General Information					
Additive	Antistatic				
	Nucleating Agent				
Features	Antistatic				
	Copolymer				
	Fast Molding Cycle				
	Good Dimensional Stability				
	Good Processability				
	High Flow				
	High Impact Resistance				
	Low Shrinkage				
	Low Temperature Impact Resistance				
	Low Temperature Resistant				
	Low Warpage				
	Nucleated				
Uses	Caps				
	Closures				
	Containers				
	Household Goods				
	Lawn and Garden Equipment				
	Lids				
	Media Packaging				
	Thin-walled Packaging				
Processing Method	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Density	0.900	g/cm³	ASTM D1505		

Melt Mass-Flow Rate (MFR) (230°C/2.16			
kg)	70	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	86		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	24.0	MPa	ASTM D638
Tensile Elongation (Yield)	6.0	%	ASTM D638
Flexural Modulus	1200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	35	J/m	
23°C	70	J/m	
Thermal	Nominal Value	Unit	Test Method
Thermal Deflection Temperature Under Load (0.45)	Nominal Value	Unit	Test Method
	Nominal Value 100	Unit	Test Method ASTM D648
Deflection Temperature Under Load (0.45			
Deflection Temperature Under Load (0.45 MPa, Unannealed)	100	°C	ASTM D648
Deflection Temperature Under Load (0.45 MPa, Unannealed) Brittleness Temperature	100 > -40.0	°C	ASTM D648 ASTM D746
Deflection Temperature Under Load (0.45 MPa, Unannealed) Brittleness Temperature Vicat Softening Temperature	100 > -40.0 148	°C °C	ASTM D648 ASTM D746 ASTM D1525 ¹
Deflection Temperature Under Load (0.45 MPa, Unannealed) Brittleness Temperature Vicat Softening Temperature Accelerated Oven Ageing (150°C)	100 > -40.0 148 360	°C °C	ASTM D648 ASTM D746 ASTM D1525 ¹ ASTM D3012
Deflection Temperature Under Load (0.45 MPa, Unannealed) Brittleness Temperature Vicat Softening Temperature Accelerated Oven Ageing (150°C) Optical	100 > -40.0 148 360 Nominal Value	°C °C	ASTM D648 ASTM D746 ASTM D1525 ¹ ASTM D3012 Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed) Brittleness Temperature Vicat Softening Temperature Accelerated Oven Ageing (150°C) Optical Gloss (60°)	100 > -40.0 148 360 Nominal Value 65	°C °C hr	ASTM D648 ASTM D746 ASTM D1525 ¹ ASTM D3012 Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed) Brittleness Temperature Vicat Softening Temperature Accelerated Oven Ageing (150°C) Optical Gloss (60°) Injection	100 > -40.0 148 360 Nominal Value 65 Nominal Value	°C °C hr	ASTM D648 ASTM D746 ASTM D1525 ¹ ASTM D3012 Test Method

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