

Borealis PP BC142MO

Polypropylene Copolymer

Borealis AG

Message:

BC142MO is a controlled rheology polypropylene heterophasic copolymer. It is characterized by high impact strength, good stiffness, excellent processability, good flow properties and low warpage.

General Information			
UL YellowCard	E108112-218618		
Features	Controlled Rheology		
	Copolymer		
	Good Flow		
	Good Processability		
	Good Stiffness		
	High Impact Resistance		
	Low Warpage		
Uses	Containers		
	Crates		
	Engineering Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1150	MPa	ISO 527-2/50
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	9.5	%	ISO 527-2/50
Flexural Modulus	1050	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m ²	
23°C	9.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	75.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 to 260	°C	

Mold Temperature	10.0 to 30.0	°C
Injection Rate	Fast	
Holding Pressure	20.0 to 50.0	MPa

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