Borealis PP BC650MO

Polypropylene Impact Copolymer

Borealis AG

Message:

BC650MO is a very high impact polypropylene heterophasic copolymer intended for injection moulding. This product offers a good UV resistance, further enhanced by pigmentation. This grade features high impact strength, high thermal stability and very good processability. As all polypropylenes, this grade shows excellent stresscracking and chemical resistances. This grade is characterized by combination of good stiffness, good creep resistance and very high impact strength even at low temperatures.
This grade is mildly nucleated to maximize the mechanical stiffness. The additive formulation provides a smooth demoulding. Nucleation, good flow properties and high stiffness create a high potential for cycle time reduction.
CAS-No. 9010-79-1

General Information	
Additive	Nucleating Agent
Features	Fast Molding Cycle
	Good Chemical Resistance
	Good Color Stability
	Good Creep Resistance
	Good Mold Release
	Good Organoleptic Properties
	Good Processability
	Good Thermal Stability
	Good UV Resistance
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	High Melt Stability
	High Stiffness
	Impact Copolymer
	Low Temperature Impact Resistance
	Nucleated
Uses	Containers
	Crates
	Engineering Parts
	Luggage
	Support Trays
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ISO 1133

Molding Shrinkage	1.0 to 2.0	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1200	MPa	ISO 527-2/50
Tensile Stress (Yield)	23.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.5	%	ISO 527-2/50
Flexural Modulus	1100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	7.5	kJ/m^2	
23°C	25	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [1] (0.45 MPa, Unannealed)	80.0	°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	
NOTE			
1.	Injection molded specimen		

Recommended distributors for this material

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