Borealis PP BB125MO

Polypropylene Copolymer

Borealis AG

Message:

BB125MO is a heterophasic copolymer. This grade is a low melt flow rate grade intended for blow moulding and sheet extrusion, and features extremely good processability with improved melt strength and melt stability. As all polypropylenes, this grade shows excellent stress-cracking and chemical resistances.
This polymer is one of the IMP (improved mechanical stability) grades, and is characterized by very high stiffness without any loss of impact strength even at low temperatures.

General Information	
Features	Copolymer
	Good Chemical Resistance
	Good Impact Resistance
	Good Melt Strength
	Good Processability
	High ESCR (Stress Crack Resist.)
	High Melt Stability
	High Stiffness
	Low Flow
	Low Temperature Impact Resistance
Uses	Corrugated Sheet
	Industrial Applications
	Industrial Containers
Forms	Pellets
Processing Method	Blow Molding
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/5.0 kg	2.3	g/10 min	
230°C/2.16 kg	1.3	g/10 min	
230°C/5.0 kg	6.0	g/10 min	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1300	MPa	ISO 527-2/50
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Flexural Modulus	1200	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	7.0	kJ/m^2	
23°C	50	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	190 to 220	°C	
Cylinder Zone 2 Temp.	190 to 220	°C	
Cylinder Zone 3 Temp.	190 to 220	°C	
Cylinder Zone 4 Temp.	190 to 220	°C	
Cylinder Zone 5 Temp.	190 to 220	°C	
Melt Temperature	180 to 220	°C	
Die Temperature	180 to 220	°C	

Recommended distributors for this material

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