Borealis PP BC545MO

Polypropylene Impact Copolymer

Borealis AG

Message:

BC545MO is a low-blush polypropylene heterophasic copolymer intended for injection moulding. This grade features high impact strength, high thermal stability and very good processability. As all polypropylenes, this grade shows excellent stress-cracking and chemical resistances. This grade is characterized by combination of high stiffness, very high impact strength and low stress whitening.
This grade is mildly nucleated to maximize the stiffness-impact balance. The additive formulation provides longterm heat stability. Its very good organoleptic properties allows this grade to be used with any masterbatch without discoloring problems.

General Information	
Additive	Heat Stabilizer
	Nucleating Agent
Features	Copolymer
	Good Chemical Resistance
	Good Color Stability
	Good Organoleptic Properties
	Good Processability
	Good Thermal Stability
	Heat Stabilized
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	High Melt Stability
	High Stiffness
	Nucleated
	Stress Whitening Resistant
Uses	Automotive Interior Parts
	Battery Cases
	Containers
	Crates
	Engineering Parts
	Luggage
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.908	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ISO 1133
Molding Shrinkage	1.5	%	Internal Method

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1250	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	25.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	8.0	%	ISO 527-2/50
Flexural Modulus [1] (Injection Molded)	1200	MPa	ISO 178
Flexural Stress (Injection Molded)	30.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C, Injection Molded	6.0	kJ/m^2	
23°C, Injection Molded	12	kJ/m^2	
Notched Izod Impact Strength			ISO 180/1A
-20°C, Injection Molded	5.5	kJ/m^2	
23°C, Injection Molded	11	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [2]			
0.45 MPa, Unannealed	90.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	54.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A
--	70.0	°C	ISO 306/B
Melt Energy	110	kJ/kg	ISO 11357
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.	2.0 mm/min		
2.	Injection molded		

Recommended distributors for this material

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