

Borealis PP BH345MO

Polypropylene Copolymer

Borealis AG

Message:

BH345MO is a heterophasic copolymer. This grade is characterized by optimum combination of very high stiffness, good flow properties and good impact strength. and is designed for high-speed injection moulding and contains nucleating and antistatic/demoulding additives.

Components moulded from this grade show good ejectability and combine excellent stiffness with very good gloss, good antistatic and excellent organoleptic properties.

General Information			
Additive	Antistatic		
	Mold Release		
	Nucleating Agent		
Features	Antistatic		
	Copolymer		
	Fast Molding Cycle		
	Good Flow		
	Good Mold Release		
	Good Organoleptic Properties		
	High Impact Resistance		
	High Stiffness		
	Medium Gloss		
	Nucleated		
Uses	Automotive Interior Parts		
	Closures		
	Engineering Parts		
	Food Packaging		
	Household Goods		
	Pails		
	Thin-walled Containers		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.904	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	45	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	Internal Method
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (R-Scale)	89		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2/1
Tensile Stress (Yield)	26.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m ²	
23°C	6.5	kJ/m ²	
Multi-Axial Instrumented Impact Energy			ISO 6603-2
-20°C, Total Penetration Energy	22.0	J	
0°C, Total Penetration Energy	30.0	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹ (0.45 MPa, Unannealed)	95.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 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		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

