Bormod™ BF970MO

Polypropylene Copolymer

Borealis AG

Message:

Bormod BF970MO is a heterophasic copolymer. This product is characterized by an optimum combination of very high stiffness and high impact strength. This grade uses Borealis Nucleation Technology (BNT) to increase productivity by cycle time reduction. BNT in combination with excellent stiffness and good flow properties creates a high potential for wall-thickness reduction. Products originating from this grade have very good demoulding properties, well-balanced mechanical properties, excellent dimension consistency with respect to different colors and good organoleptic properties.

General Information			
UL YellowCard	E108112-100608397		
Additive	Nucleating Agent		
Features	Copolymer Fast Molding Cycle Good Dimensional Stability Good Flow Good Mold Release Good Organoleptic Properties High Impact Resistance High Stiffness Nucleated		
Uses	Automotive Interior Parts Crates Engineering Parts Pails		
Forms	Pellets		
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)	20	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	89		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	1500	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	27.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	5.0	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.5	kJ/m²	
23°C	8.5	kJ/m²	
Multi-Axial Instrumented Impact Energy			ISO 6603-2
-20°C, Injection Molded, Total Penetration Energy	15.0	J	
0°C, Injection Molded, Total Penetration Energy	20.0	J	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [1] (0.45 MPa, Unannealed)	105	°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		

Recommended distributors for this material

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