Bormed™ HD850MO

Polypropylene Homopolymer

Borealis AG

Message:

Bormed HD850MO is a medium melt-flow-rate polypropylene homopolymer prepared by Borealis Nucleation Technology (BNT). This grade has exceptional dimensional stability and its high crystallization temperature allows for the reduction of cycle time. This polymer grade is intended for production of medical and medical-related articles.
Products from this grade are characterized by excellent clarity and balanced stiffness/impact properties. Due to its high heat deflection temperature, products made from this grade can be steam sterilized (121°C for 20 min).

General Information			
Additive	Nucleating Agent		
Features	Fast Molding Cycle Good Dimensional Stability Good Impact Resistance Good Stiffness High Clarity High Heat Resistance Homopolymer Nucleated Steam Sterilizable		
Uses	Caps Closures Medical/Healthcare Applications Pharmaceutical Packaging		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.910	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	105		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1800	MPa	ISO 527-2/1
Tensile Stress (Yield)	38.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	7.5	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength (23°C)	5.5	kJ/m²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [1] (0.45 MPa, Unannealed)	112	°C	ISO 75-2/B
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	15.0 to 60.0	°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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