Bormed™ HF840MO

Polypropylene Homopolymer

Borealis AG

Message:

Bormed HF840MO is a polypropylene homopolymer intended for injection moulding. This grade is modified with internal lubricant for products requiring a low surface friction. and is characterized by easy processability, high transparency, controlled low friction, good physical properties, good printability and easy demoulding. In addition it can be sterilized with ethylene oxide or steam and has an excellent chemical resistance.

General Information			
Additive	Lubricant		
Features	Ethylene Oxide Sterilizable Excellent Printability Good Chemical Resistance Good Mold Release Good Processability High Clarity High Gloss Homopolymer Low Friction Lubricated Recyclable Material Steam Sterilizable		
Uses	Hypodermic Syringe Parts Medical/Healthcare Applications Valves/Valve Parts		
Appearance	Clear/Transparent		
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)	19	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	93		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1250	MPa	ISO 527-2/1
Tensile Stress (Yield)	29.5	MPa	ISO 527-2/50
Tensile Strain (Yield)	11	%	ISO 527-2/50

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m^2	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [1] (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	210 to 260	°C	
Mold Temperature	30.0 to 40.0	°C	
Injection Rate	Moderate-Fast		
Holding Pressure	20.0 to 50.0	MPa	
NOTE			
1.	Injection molded specimen		

Recommended distributors for this material

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