

Bormed™ HD810MO

Polypropylene Homopolymer

Borealis AG

Message:

Bormed HD810MO is a polypropylene homopolymer This polymer grade is intended for production of medical and medical-related articles. In addition it can be sterilized with gamma radiation and has an excellent chemical resistance.
Products moulded from this grade and radiated with the dose of 25 kGy have a shelf-life of 5 years, if stored below 40°C.

General Information			
Features	Excellent Printability		
	Good Chemical Resistance		
	Good Flow		
	Good Processability		
	High Clarity		
	Homopolymer		
	Medium Gloss		
	Radiation (Gamma) Resistant		
	Radiation Sterilizable		
	Recyclable Material		
Uses	Medical/Healthcare Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.907	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	94		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2/1
Tensile Stress (Yield)	29.5	MPa	ISO 527-2/50
Tensile Strain (Yield)	13	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹ (0.45 MPa, Unannealed)	90.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	

Processing (Melt) Temp	220 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

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Recommended distributors for this material

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