Bormed™ RF830MO

Polypropylene Random Copolymer

Borealis AG

Message:

Bormed RF830MO is a specially modified transparent polypropylene random copolymer with high meltflow. This polymer grade is intended for production of medical and medical-related articles. It is characterized by easy processability, high transparency, high gloss and good stiffness-impact balance. In addition it can be sterilized with gamma radiation and has an excellent chemical resistance.
In addition to its good physical properties and excellent transparency, this grade also yields products with good printability. 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 Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Clarity		
	High Flow		
	High Gloss		
	Radiation (Gamma) Resistant		
	Radiation Sterilizable		
	Random Copolymer		
Uses	Caps		
	Closures		
	Disposable Hospital Goods		
	Labware		
	Medical/Healthcare Applications		
	Tubing		
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)	20	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	90		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1150	MPa	ISO 527-2/1

Tensile Stress (Yield)	28.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	12	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m^2	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature [1] (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	220 to 250	°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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