

BorPure™ RE450MO

Polypropylene Random Copolymer

Borealis AG

Message:

BorPure RE450MO is a specially modified highly-transparent polypropylene random copolymer with medium melt flow rate. This grade is characterized by optimum combination of high impact strength and stiffness. It is designed for high-speed injection moulding and contains nucleating and demoulding additives.

BorPure RE450MO can be also used in injection stretch blow moulding (ISBM).

CAS-No. 9010-79-1

General Information			
Additive	Mold Release		
	Nucleating Agent		
Features	Excellent Organoleptic Properties		
	High Clarity		
	High Impact Resistance		
	High Stiffness		
	Medium Flow		
	Nucleated		
	Random Copolymer		
	Recyclable Material		
Uses	Bottles		
	Closures		
	Lids		
	Pails		
Processing Method	Injection Molding		
	Injection Stretch Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (50.0 mm)	1100	MPa	ISO 527-2
Tensile Stress (Yield)	28.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	12	%	ISO 527-2/50
Flexural Modulus	1050	MPa	ISO 178
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 (0.45 MPa, Unannealed)	75.0	°C	ISO 75-2/B
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	35.0	°C	
Injection Rate	Fast		
Holding Pressure	20.0 to 50.0	MPa	

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