

Borealis PP BB412E

Polypropylene Copolymer

Borealis AG

Message:

BB412E is a natural, medium molecular weight, medium melt flow rate polypropylene block copolymer with an optimal mechanical properties balance resulting in high stiffness and a very good impact strength both at room temperature and at low temperatures.
The material is colored grey based on RAL 7032

General Information			
Features	Block Copolymer		
	Rigidity, high		
	Impact resistance, high		
	Medium liquidity		
	Low temperature impact resistance		
	Medium molecular weight		
Uses	Bellows		
	Piping system		
Appearance	Grey		
Forms	Particle		
Processing Method	Extrusion		
	Profile extrusion molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/5.0 kg	2.5	g/10 min	ISO 1133
230°C/2.16 kg	1.3	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1300	MPa	ISO 527-2
Tensile Stress (Yield, Injection Molded)	28.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	8.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	5.0	kJ/m ²	ISO 179/1eA
23°C	25	kJ/m ²	ISO 179/1eA
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190 - 230	°C	
Cylinder Zone 2 Temp.	190 - 230	°C	

Cylinder Zone 3 Temp.	190 - 230	°C
Cylinder Zone 4 Temp.	190 - 230	°C
Cylinder Zone 5 Temp.	190 - 230	°C
Melt Temperature	200 - 230	°C
Die Temperature	200 - 230	°C

Extrusion instructions

Head Temperature: 200-230

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Recommended distributors for this material

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