

BorECO™ BA212E

Polypropylene Copolymer

Borealis AG

Message:

BorECO BA212E is a high molecular weight, low melt flow rate polypropylene block copolymer with very high stiffness and impact strength. BorECO BA212E is recommended for solid wall and structured wall non-pressure pipes fittings and chambers, thin-walled corrugated pipes and profiles.

General Information			
Features	Block Copolymer		
	Rigidity, high		
	High molecular weight		
	Impact resistance, high		
	Recyclable materials		
	Low liquidity		
Uses	Bellows		
	Piping system		
	Accessories		
	Profile		
Processing Method	Pipeline extrusion molding		
	Extrusion		
	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.30	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	31.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/50
Flexural Modulus ¹	1700	MPa	ISO 178
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	50	kJ/m ²	ISO 179/1eA
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	200 - 220	°C	
Cylinder Zone 2 Temp.	200 - 220	°C	
Cylinder Zone 3 Temp.	200 - 220	°C	
Cylinder Zone 4 Temp.	200 - 220	°C	

Cylinder Zone 5 Temp.	200 - 220	°C
Melt Temperature	210 - 230	°C
Die Temperature	210 - 220	°C

Extrusion instructions

Head Temperature: 210 to 220°C

NOTE

1. 2.0 mm/min

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