

Borealis PP BEC5012

Polypropylene Copolymer

Borealis AG

Message:

BEC5012 is a high molecular weight, low flow rate polypropylene block copolymer with very high impact strength.

BEC5012 is recommended for non-pressure pipes and fittings, structured wall pipes and profiles and sheets.

General Information			
Features	Block Copolymer		
	High molecular weight		
	Impact resistance, high		
	Low liquidity		
Uses	Piping system		
	Accessories		
	Sheet		
	Profile		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Extrusion		
	Sheet extrusion molding		
	Profile extrusion 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	0.50	g/10 min	ISO 1133
230°C/2.16 kg	0.30	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1300	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			ISO 179/1eA
-20°C	5.0	kJ/m ²	ISO 179/1eA
23°C	70	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: 200 to 230°C

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