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/cm³	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/m²	ISO 179/1eA
23°C	70	kJ/m²	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

Recommended distributors for this material

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