

Borealis PP BA202E

Polypropylene Copolymer

Borealis AG

Message:

BA202E is a high molecular weight, low melt flow rate polypropylene block copolymer with very high impact strength. BA202E is recommended for non-pressure pipes & fittings, thin-walled corrugated pipes and profiles.

General Information			
Features	Block Copolymer		
	Ultra-high impact resistance		
	High molecular weight		
	Low liquidity		
Uses	Bellows		
	Piping system		
	Pipeline coating		
	Accessories		
	Profile		
Forms	Particle		
Processing Method	Extrusion		
	Profile extrusion molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
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
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	28.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	6.0	%	ISO 527-2/50
Flexural Modulus ¹	1300	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: 210 to 220°C		
NOTE		

- 2.0 mm/min

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