

Borealis PP HA104E

Polypropylene Homopolymer

Borealis AG

Message:

HA104E is a natural high molecular weight, high melt flow rate polypropylene homopolymer characterised by wellbalanced stiffness to impact strength ratio at increased processing properties.
HA104E is recommended for non-pressure pipes and fittings, structured wall pipes and profiles and sheets.

General Information			
Features	Rigidity, high		
	High molecular weight		
	Homopolymer		
	Impact resistance, high		
	High liquidity		
Uses	Piping system		
	Accessories		
	Sheet		
	Profile		
Appearance	Natural color		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Extrusion		
	Sheet extrusion molding		
	Profile extrusion molding		
	Calendering		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.75	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1490	MPa	ISO 527-2/1
Tensile Stress (Yield)	35.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	10	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	92.0	°C	ISO 75-2/B

Vicat Softening Temperature	94.0	°C	ISO 306/B50
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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