

Borealis PP BE50

Polypropylene Homopolymer

Borealis AG

Message:

BE50 is a high molecular weight, low melt flow rate polypropylene homopolymer characterised by high stiffness, high heat distortion temperature and high resistance to thermal ageing.
The product is available in natural colour.
BE50 is recommended for non-pressure pipes and fittings, extruder sheets, solid rods, filter plates and other extrusion applications.

General Information			
UL YellowCard	E108112-218623		
Features	Rigidity, high		
	High molecular weight		
	Homopolymer		
	Good heat aging resistance		
	Low liquidity		
	Heat resistance, high		
Uses	Bar		
	Industrial application		
	Piping system		
	Accessories		
	Sheet		
Appearance	Natural color		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Extrusion		
	Sheet extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/5.0 kg	0.45	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	1650	MPa	ISO 527-2/1
Tensile Stress (Yield)	36.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	10	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	2.0	kJ/m ²	ISO 179/1eA
23°C	7.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°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 Temperature: 200 to 230°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

