

Borealis PP HB601WG

Polypropylene Homopolymer

Borealis AG

Message:

HB601WG is a polypropylene homopolymer intended for injection moulding and blow moulding. The product is available in natural but other colours can be provided on request.
This material has excellent balanced mechanical properties and is easy to process.

General Information	
UL YellowCard	E108112-218642
Additive	heat stabilizer
Features	Homopolymer
	Detergent resistance
	Thermal Stability
Uses	Electrical appliances
	Home appliance components
	Household goods
UL File Number	E108112
Appearance	Available colors
	Natural color
Forms	Particle
Processing Method	Blow molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction: 2.00mm	1.3	%	Internal method
Flow direction: 2.00mm	1.4	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	65.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2/1
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	10	%	ISO 527-2/50
Flexural Modulus ¹	1400	MPa	ISO 178

Flexural Stress	40.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	20	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	85.0	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	154	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Hopper Temperature	40.0 - 80.0	°C	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Back pressure: Low to mediumScrew speed: Low to mediumFlow front speed: 100 - 200 mm/s			
NOTE			
1.	5.0 mm/min		

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