

Borealis PP BC612WG

Polypropylene Copolymer

Borealis AG

Message:

BC612WG is a polypropylene copolymer intended for injection 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.

Applications

BC612WG has been developed especially for applications like:

Washing machine parts

Dishwashers components

Household applications

Special features:

Long term high heat stabilised

UL registered under File E108112

General Information			
UL YellowCard	E108112-218619		
Additive	heat stabilizer		
Features	Copolymer		
	Workability, good		
	Thermal Stability		
Uses	Home appliance components		
	Household goods		
	Car interior parts		
UL File Number	E108112		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	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)	5.0	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction: 2.00mm	1.4	%	Internal method
Flow direction: 2.00mm	1.6	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	44.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2/1

Tensile Stress (Yield)	24.0	MPa	ISO 527-2/50
Flexural Modulus ¹	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	87	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	70.0	°C	ISO 75-2/B
1.8 MPa, not annealed	51.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	154	°C	ISO 306/A50
--	64.0	°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.	2.0 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

