

Borealis HB601WG Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

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

HB601WG has been developed especially for applications like household applications, dishwasher components, and washing machine parts. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HB601WG-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	average process; cross flow; 150x80x2mm
	0.014 cm/cm	0.014 in/in	average process; in flow; 150x80x2mm
Melt Flow	2.2 g/10 min	2.2 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	65.0 MPa	9430 psi	358 N/30s; ISO 2039
Tensile Strength, Yield	34.0 MPa	4930 psi	ISO 527-2
Elongation at Yield	10 %	10 %	50mm/min; ISO 527-2
Tensile Modulus	1.40 GPa	203 ksi	1mm/min; ISO 527-2
Flexural Strength	40.0 MPa	5800 psi	ISO 178
Flexural Modulus	1.40 GPa	203 ksi	5mm/min; ISO 178
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	52.0 °C	126 °F	ISO 75-2
Vicat Softening Point	90.0 °C	194 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	154 °C	309 °F	ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Processing Properties	Metric	English	Comments
Processing Temperature	220 - 260 °C	428 - 500 °F	mass temperature
Feed Temperature	40.0 - 80.0 °C	104 - 176 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Injection Velocity	100 - 200 mm/sec	3.94 - 7.87 in/sec	
Hold Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

Descriptive Properties	Value	Comments
Back Pressure	low to medium	
Screw Speed	low to medium	

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